

MAHARASHTRASTATE BOARD OF TECHNICAL EDUCATION

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(ISO/IEC - 27001 - 2005 Certified)

# MODEL ANSWER

### **SUMMER-19 EXAMINATION**

### Subject Title: C' Programming Language

Subject Code: 22218

ENGINEERING

22218

### **Important Instructions to examiners:**

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for anyequivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgment on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No.	Sub Q.N.	Answer		Marking Scheme
Q.1		Attempt any Five :		10 M
	a)	List any four relational operators with	their use.	2M
	Ans:	Relational operators are use in conditi	onal statements.	Each operator
		Operator	Use	with its use
		==	equal to	$\frac{1}{2} M$
		!=	Not equal to	





	<		less than	(Any 4)
	>		Greater than	
	<=		Less than equal to	
	>=		Greater than equal to	
b)	Give syntax of switch-case	e statement.		2M
Ans:	Syntax:			Correct
	switch(variable)			syntax 2N
	{			
	case value1:			
	statements			
	break;			
	case value2:			
	statements;			
	break;			
	•			
	default:			
	statements;			
	break;			
	}			
<b>c</b> )				214
0)	Give syntax of for loop.	$\mathbf{V}$		<b>2M</b>
Ans:	Syntax:			Correct
	for(initialization; condition	; increment/decre	ment)	syntax 2N
	{			
	Statements;			
	}			
<b>d</b> )	State any two differences	hotwoon call by	value and call by reference.	2M
	State any two unitiences	between can by	value and can by reference.	
	Sr. Call b	y value	Call by reference	Any two
	No.	y raiut		difference
		ctual arguments	Address of actual arguments	is <b>1M each</b>
	(value) is pass	ed to respective	passed to formal arguments.	
Ans:	formal argumen			
лцэ.		nts will remain	Alteration to actual arguments	is
	I safe they can	not be modified	possible within from called	





	accidentally		function; therefore the code must		
	accidentally.				
			handle arguments carefully else		
		4 1 1	you get unexpected results.		
	3 Address of the a		Address of the actual and		
	formal argument		formal arguments are the same		
	4 Changes made in		Changes made in the function are		
	function are not	reflected in	reflected outside also.		
	other functions				
e)	Define pointer and state an	y two uses of p	ointer.	2M	
Ans:			s memory address of another variable	1M	
	which is of similar data type				
	Uses of pointer:-		-	any two	
	1. Pointers are used for dyna			correct	
	2. Pointers permit references	s to functions an	d thereby facilitating passing of	uses 1/2N	
	functions as arguments to			each)	
	3. They can be used to return	n multiple value	es from a function via function		
	arguments.				
<b>f</b> )	· · · · · · · · · · · · · · · · · · ·			2M	
	State the use of 🗯 , *, & sy	mbols used in p	pointers.		
Ans:	* operator:-			1M	
	It is used to declare a pointer	variable.			
	<b>Example:</b> int *ptr;				
		declares ptr as a	an integer pointer variable.		
		declares ptr as a	an integer pointer variable. <b>OR</b>		
	The above statement	-	OR		
	The above statement It is also used as value at o	-			
	The above statement It is also used as value at o pointer variable.	perator i.e. it rea	OR		
	The above statement It is also used as value at o pointer variable. Example: printf("%d", *ptr)	perator i.e. it rea	<b>OR</b> ads the value from the address stored in		
	The above statement It is also used as value at o pointer variable. Example: printf("%d", *ptr)	perator i.e. it rea	OR		
	The above statement It is also used as value at o pointer variable. <b>Example:</b> printf("%d", *ptr)	perator i.e. it rea	<b>OR</b> ads the value from the address stored in		
	The above statement It is also used as value at o pointer variable. Example: printf("%d", *ptr) The above statemen	perator i.e. it rea	<b>OR</b> ads the value from the address stored in	1M	
	The above statement It is also used as value at oppointer variable. Example: printf("%d", *ptr) The above statement variable.	perator i.e. it rea	<b>OR</b> ads the value from the address stored in	1M	
	The above statement It is also used as value at o pointer variable. <b>Example:</b> printf("%d", *ptr) The above statement variable. <b>&amp; operator:-</b>	perator i.e. it rea ); nt displays valu	<b>OR</b> ads the value from the address stored in the present at the address stored in ptr	1M	
	The above statement It is also used as value at oppointer variable. Example: printf("%d", *ptr) The above statement variable. & operator:- It is used to retrieve address	perator i.e. it rea ); nt displays valu	<b>OR</b> ads the value from the address stored in the present at the address stored in ptr	1M	
	The above statement It is also used as value at o pointer variable. <b>Example:</b> printf("%d", *ptr) The above statement variable. <b>&amp; operator:-</b>	perator i.e. it rea ); nt displays valu	<b>OR</b> ads the value from the address stored in the present at the address stored in ptr	1M	





		The above statement stores the address of variable a in the pointer variable	
		ptr.	
	<b>g</b> )	Define structure.	<b>2M</b>
	Ans:	Definition:	2M
	AII5.	A structure is a collection of one or more variables of same or different data types	2111
		grouped together under a single name.	
Q 2		Attempt any Three :	12M
	a)	Explain any four data types used in C with example.	<b>4M</b>
	Ans:	Data type in C are:	Explanation
	111150		four data
		short int/signed short int/int/signed int/unsigned int/long int/signed long int/unsigned	
		long int/char/float/double/long double/void	type with
			example
		Integer data type:	- 1Mh
		• <b>short int/signed short int:</b> It is used to declare integer type variable. It occupy 8	1M each
		bits(1 byte) memory size to store data such as 10,20,etc.	
		Example: short int number;	
		• <b>int/signed int/unsigned int</b> : It is used to declare integer type variable. It occupy	
		16 bits (2 bytes) memory size to store data such as 100,200,etc. Example:int rollno;	
		<ul> <li>long int/signed long int/unsigned long int: It is used to declare integer type</li> </ul>	
		variable. It occupy 32 bits (4 bytes) memory size to store data such as mobile	
		number.	
		Example: long int contactno;	
		Character data type:	
		• <b>char/signed char/unsigned char:</b> It is used to declare character type variable.	
		It occupy 8 bits(1 byte) memory size to store data such as 'a',b','%',etc.	
		Example: char ch;	
		Floating point data type:	
		• <b>float:</b> It is used to declare floating point type variable. It occupy 32 bits	
		(4 bytes) memory size to store data such as 1.1,2.2,etc.	
		Example: float percentage;	
		• <b>double:</b> It is used to declare floating point type variable. It occupy 64 bits	
		(8 bytes) memory size to store data such as 10.1,22.2,etc.	
		Example: double percentage;	





	• <b>long double:</b> It is used to declare floating point type variable. It occupy 80 bits (10 bytes) memory size to store data such as 11.11,21.2,etc.	
	Example: long double percentage;	
	void data type:	
	void data type has no values. When a function does not return any value then the	
	return type of function is specified with void data type.	
	example:	
	void add( )	
	{	
	Statements;	
	}	
b)	Explain nested if-else statement with syntax and example.	4M
Ans:	Definition:	2M
	ifelse statement used inside if statement used in a program is called as nested	
	ifelse statement. When series of decisions are involved in a program we can use	
	nested ifelse statement.	
	Syntax :	2M
	if(test condition1)	
	if(test condition2)	
	{ statement-1;	
	}	
	else	
	{	
	statement-2;	
	}	
	} else	
	statement-3;	
	}	
	statement-x;	
	If test condition-1 is true, then condition-2 is checked. If condition-2 is true, then	
	statement-1 is evaluated. If condition-2 is false then statement-2 is evaluated and then control is transferred to the statement-x. If condition-1 is false then control	
	passes to statemtn-3 and it is executed .Then control passes to statement-x	





	example:	1M
	int num=75;	
	if(num<100)Condition 1	
	{	
	if(num<50)Condition 2	
	{	
	printf("Number is less than 50");Statement 1	
	else	
	{	
	printf("Number is greater than 50 but less than 100"); statement 2	
	}	
	else	
	f printf("Number is greater than 100");statement 3	
	}	
	In the above example, variable num is initialized to value 75. In condition 1 num is	
	Compared with 100 and the condition evaluates to true. So control passes to	
	condition 2. In condition 2 num is greater than 50 so condition is false. Control	
	passes to statement 2 and output is "Number is greater than 50 but less than 100". Then control comes out of nested ifelse statement.	
	Then control comes out of nested inelse statement.	
<b>c</b> )	Explain Array. State two advantages of array.	<b>4</b> M
Ans:	Explanation:	3M
		0101
	An array is a sequenced collection of similar type of data. Values in an array are	
	stored in Continuous memory locations. All data values stored in an array share a	
	common name. To access individual value from an array, index variable is used. An	
	index variable starts with $0_{th}$ position. First value in an array is stored at $0^{th}$ position	
	and last value is stored in size-1 index position. For example, in an array of 5 elements, first value is stored at 0 <sup>th</sup> position and last value is stored at 4 <sup>th</sup> index	
	position.	
	Syntax to declare an array:	
	data type arr_name[size];	
	In the above syntax,	
	• <b>data type</b> specify type of data that can be stored in an array.	
	• <b>arr_name</b> specify name of array.	





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	Example: int arr[5] = {10, 20, 5, 3, 55};	
	In the above example, an array variable arr is declared and initialized with integer values with the size 5.	
	arr[0] arr[1] arr[2] arr[3] arr[4] 10 20 5 3 55	
		<sup>1</sup> ⁄2 Each
	Advantages of an array:	(Any 2)
	<ul> <li>Array represents multiple data items of similar type using single name.</li> <li>Adding and removing data element at any index position is possible.</li> </ul>	
<b>d</b> )	List any 2 string functions. Give syntax and use of each function.	<b>4M</b>
	1. streat () 2. stremp() 3. strepy () 4. strlen () 5. strlwr() 6. strupr()	Syntax ½ Each
		Lati
	1. streat ():- This string function is used to join two strings together.	
	<ul> <li>Syntax: strcat (string1, string2);</li> <li>string1 and string2 are character arrays. When the function strcat () is executed, string2 is appended to string1 i.e. contents of string2 are added at the end of string1.</li> </ul>	Use 1M
	<b>Syntax:</b> strcat (string1, string2); string1 and string2 are character arrays. When the function strcat () is executed,	Use 1M Each
	<ul> <li>Syntax: strcat (string1, string2);</li> <li>string1 and string2 are character arrays. When the function strcat () is executed,</li> <li>string2 is appended to string1 i.e. contents of string2 are added at the end of string1.</li> <li>2. strcmp():- This string function is used to compare the contents of two strings. It returns 0 if both string are equal. Otherwise it returns the numerical difference</li> </ul>	
	<ul> <li>Syntax: strcat (string1, string2);</li> <li>string1 and string2 are character arrays. When the function strcat () is executed, string2 is appended to string1 i.e. contents of string2 are added at the end of string1.</li> <li>2. strcmp():- This string function is used to compare the contents of two strings. It returns 0 if both string are equal. Otherwise it returns the numerical difference between the ascii values of the first non matching pair of characters.</li> <li>Syntax: strcmp(string1,string2);</li> </ul>	





		string1 and string2 are character arrays. When strcpy() function executes the contents of string2 are copied into string1.	
		<b>4. strlen( ):-</b> This string function is used to count and return number of characters stored in a string.	
		<b>Syntax:</b> variable_name=strlen(string); string is a character array.variable_name is an integer variable that stores the value of the length of the string return by strlen() function.	
		<ul> <li>5. strlwr():- This string function is used to convert a given string into lower case letters.</li> <li>Syntax: strlwr(string); string is a character array.</li> </ul>	
		<ul> <li>6. strupr():- This string function is used to convert a given string into upper case letters.</li> <li>Syntax: strupr(string); string is a character array.</li> </ul>	
Q.3		Attempt any Three:	12M
	a)	Enlist any four bitwise operators used in C and give example of each.	4M
	Ans:	Bitwise operators:           - Bitwise OR         & - Bitwise AND         ~ - One"s complement         ^ - Bitwise XOR         << - left shift	List 2M example of any four
		1100	bitwise operator





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OR 1110	1/2 M each
Bitwise AND – &	
It takes 2 bit patterns, and perform AND operations with it.	
1010	
1100	
AND 1000	
The Bitwise AND will take pair of bits from each position, and if only both the bit is	
1, the result on that position will be 1.	
Bitwise AND is used to Turn-Off bits.	
Bitwise NOT:	
One"s complement operator (Bitwise NOT) is used to convert each "1-bit to 0-bit"	
and "0-bit to 1-bit", in the given binary pattern. It is a unary operator i.e. it takes only	
one operand.	
NOT 0110	
Bitwise XOR ^	
Bitwise XOR ^, takes 2 bit patterns and perform XOR operation with it.	
0101	
0110	
XOR 0011	
Left shift Operator – <<	
The left shift operator will shift the bits towards left for the given number of times.	
int a=2<<1;	
Right shift Operator ->>	
The right shift operator will shift the bits towards right for the given number of	
times. int a=8>>1;	
Int u=0//1,	





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b)	Explain Pointer Arithmetic.	<b>4M</b>
Ans:	The pointer arithmetic is done as per the data type of the pointer. The basic operations on pointers are <b>Increment:</b>	Arithmeti operation 1M Each
	It is used to increment the pointer. Each time a pointer is incremented, it points to the next location with respect to memory size .	
	Example,	
	If ptr is an integer pointer stored at address 1000,then ptr++ shows 1002 as incremented location for an int. It increments by two locations as it requires two	
	bytes storage.	
	Decrement:	
	It is used to decrement the pointer. Each time a pointer is decremented, it points to the previous location with respect to memory size.	
	Example, If the current position of pointer is 1002, then decrement operation ptr results in the	
	pointer pointing to the location 1000 in case of integer pointer as it require two bytes storage.	
	Addition:	
	When addition operation is performed on pointer, it gives the location incremented by the added value according to data type.	
	Eg: If ptr is an integer pointer stored at address 1000,	
	Then ptr+2 shows $1000+(2*2) \neq 1004$ as incremented location for an int.	
	Subtraction:	
	When subtraction operation is performed on the pointer variable, it gives the location decremented by the subtracted value according to data type.	
	Eg: If ptr is an integer pointer stored at address 1004,	
	Then ptr-2 shows $1004-(2*2) = 1000$ as decremented location for an int.	
<b>c</b> )	Explain meaning of following statement with reference to Pointer:	4M
	int var = 50;	
	int *p1, *p2;	





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	P1= & var;	
	P2= p1;	
Ans:	int var = 50;	Correct
	It is declaration and initialization of integer variable var with value 50.	meaning ( each
	int *p1, *p2;	statement 1M
	It is declaration of integer pointer p1 and integer pointer p2.	
	P1= & var;	
	Address of var is assigned to variable P1.	
	P2= p1;	
	Value of p1 is assigned to P2.	
d)	Explain declaration of structure with example.	<b>4M</b>
Ans:	<ul> <li>Structure: A structure is a collection of one or more variables of same or different data types grouped together under a single name.</li> <li>struct structure_name </li> <li>Data_type variable 1:     Data_type variable 2:         <ul> <li>Data_type variable 2:</li> <li>Data_type variable n;</li> </ul> </li> <li>Variable_name;</li> <li>Structure variable is used to access members of structure inside main function with dot operator.</li> <li>Variables of structure can be declared as:         <ul> <li>Variable of structure can be declared as:</li> <li>Variable of structure can be declared at the end of structure declaration before semi colon or inside the main function.</li> <li>struct book b; //for a single book</li> <li>struct book b[5]; //to store data of 5 books</li> </ul></li></ul>	2M Any
	Example:	Any
	struct book	Example 2M





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		char tit[20]; char auth[20]; int price; }b1;	
Q.4	A)	Attempt any THREE :	12 M
	a)	Write a C program to accept two integer numbers from user and print the result of addition and subtraction.	4M
	Ans:	<pre>#include<stdio.h> #include<stdio.h> #include<conio.h> void main() {     int a,b,add,sub;     clrscr();     printf("Enter value for a and b:");     scanf("%d%d",&amp;a,&amp;b);     add=a + b;     sub=a - b;     printf("\nAddition of a and b=%d\n",add);     printf("\nSubtraction of a and b=%d\",sub);     getch(); }</conio.h></stdio.h></stdio.h></pre>	Correct Logic 2M Correct syntax 2M
	b)	Write a C program to check whether given number is positive or negative and display message accordingly.	4M
	Ans:	<pre>#include <stdio.h> #include <conio.h> void main() {</conio.h></stdio.h></pre>	Correct Logic 2M
		<pre>int num; clrscr(); printf("\n Enter number: "); scanf("%d",#); if(num &gt; = 0)</pre>	Correct syntax 2M





	printf("\n %d is positive number", num);	
	else	
	printf("\n %d is negative number", num);	
	getch();	
	}	
	Output:	
	Enter number: 4	
	4 is positive number	
	Enter number: -6	
	-6 is negative number	
c)	What is an output of following C code:	<b>4</b> M
	#include <stdio.h></stdio.h>	
	Void main()	
	{	
	int a[5]= {10,20,30,40,50};	
	printf("output");	
	for(i=0; i<3; i++)	
	{	
	Print("%d", a[i]);	
	}	
	}	
Ans:	output	Correct
	10 20 30	output 4M





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d)	Declare a structure book having elements as book_number, book_title, book_price and also declare array of structure taking input of 10 books using C programming language.	<b>4M</b>
Ans:	#include <stdio.h></stdio.h>	Correct
	#include <conio.h></conio.h>	Logic 2N
	void main()	
	{	
	int i;	
	struct book {	Correct syntax 2
	char book_title[50];	~,
	int book_number;	
	int book_price;	
	}b[10];	
	clrscr();	
	for(i = 0; i < 10;i++)	
	$\{$	
	printf("Enter book number, title and price of a book:");	
	scanf("%d%s%d",&b[i].book_number,b[i].book_title,&b[i].book_price);	
	}	
	printf("The details of book are:\nBook_Number \tTitle \tPrice\n");	
	for(i = 0; i < 10;i++)	
	{	
	printf("\tbook number=%d \tbook title=%s \tbook price =%d\n", b[i].book_number,	
	b[i].book_title,b[i].book_price);	





		}	
		getch();	
		}	
Q.5		Attempt any TWO :	12 M
	a)	Explain if-else statement using syntax and example.	6M
	Ans:	Syntax of if-else statement :	2M
		<ul> <li>if (test expression) {     True-block statement (s)     }     else     {         False-block statement (s)     } Statement-x; </li> <li>Explanation : <ol> <li>If else statement is a decision making statement and is used to control the flow of execution of statements.</li> <li>It allows the computer to evaluate the expression first and then depending on whether the value of the expression is true or false, it transfers the control to the particular statement block.</li> <li>If the test expression is true, then true block statement(s) are executed,</li> </ol> </li> </ul>	1M
		immediately following the if statement are executed otherwise false block statement(s) are executed.	3М
		Example:	
		<pre>#include<stdio.h> #include<conio.h> void main() {     int num;</conio.h></stdio.h></pre>	NOTE: Any other example shall be
		printf("Enter the number"); scanf("%d",#) if(num>0) {	considered





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	printf("Number is positive");	
	}	
	else	
	{	
	printf("Number is negative");	
	}	
	getch();	
<b>b</b> )	Write a C program to read string from keyboard and find whether it is	6M
	palindrome or not.	
Ans:	#include <stdio.h></stdio.h>	Correct
	#include <conio.h></conio.h>	logic 3M,
	#include <string.h></string.h>	Correct
	void main()	syntax 3M
	<pre>#include<string.h> void main() { </string.h></pre>	Syntax Sivi
	char str1[20], str2[20];	
	clrscr();	NOTE:
	printf("Enter String to check if it is palindrome "); scanf("%s",str1);	Any other
	strcpy(str2,str1);	example
	strrev(str2);	shall be
	if(strcmp(str1,str2)==0)	considered
	printf("String is a palindrome");	
	else	
	printf("String is not a paliindrome");	
	getch();	
	}	
	(OR)	
	#include <stdio.h></stdio.h>	
	#include <conio.h></conio.h>	
	<pre>#include <string.h></string.h></pre>	
	void main(){	
	char string1[20];	
	int i, length;	
	int flag = 0;	
	clrscr();	
	<pre>printf("Enter a string:"); coonf("0( c", ctring1);</pre>	
	<pre>scanf("%s", string1);</pre>	





	<pre>length = strlen(string1);</pre>	
	for(i=0; i < length; i++)	
	{	
	if(string1[i] != string1[length-i-1])	
	{	
	flag = 1;	
	break;	
	}	
	}	
	if (flag)	
	<pre>printf("%s is not a palindrome", string1);</pre>	
	else	
	<pre>printf("%s is a palindrome", string1);</pre>	
	getch();	
	}	
c)	Write a program to find length of a string.	6M
Ans:	#include <stdio.h></stdio.h>	Correct
	#include <conio.h></conio.h>	logic 3M
	#include <string.h></string.h>	
	void main()	Correct
		syntax 3M
	char str[100];	
	int length;	
	clrscr();	NOTE:
	printf("Enter a string to calculate it's length\n");	Any other
	<pre>scanf("%s",str);</pre>	example
	length = strlen(str);	shall be
	<pre>printf("Length of the string = %d\n", length);</pre>	considered
	getch();	
	}	
	( <b>OR</b> )	
	<pre>#include <stdio.h></stdio.h></pre>	
	#include <conio.h></conio.h>	
	void main()	
	{	
	char s[30];	
	int i;	
	clrscr();	





	<pre>printf("Enter a string: "); scanf("%s", s);</pre>	
	for( $i = 0$ ; s[ $i$ ] != '\0'; ++ $i$ );	
	printf("Length of string: %d", i);	
	getch();	
06	}	12M
Q.6	Attempt any TWO:	1211
a)	Write a program to add two 3 * 3 matrices.	6M
Ans:	#include <stdio.h></stdio.h>	Correct
	#include <conio.h></conio.h>	logic 3M
	void main()	
	int a[3][3], b[3][3], add[3][3], i, j;	Correct
	clrscr();	syntax 3M
	printf("Enter values for first matrix: \n");	
	for(i=0;i<3;i++)	
		NOTE:
	for(j=0;j<3;j++)	Any other
		example
	printf("Enter matrix 1 entry(%d,%d): ",i,j);	shall be
	$\operatorname{scanf}("%d",&a[i][j]);$	considered
	} printf("Enter values for second matrix: \n");	
	for $(i=0;i<3;i++)$	
	{	
	for(j=0;j<3;j++)	
	{	
	<pre>printf("Enter matrix 2 entry(%d,%d): ",i,j);</pre>	
	scanf("%d",&b[i][j]);	
	}	
	}	
	//Performing addition	
	for(i=0;i<3;i++)	
	{	
	for(j=0;j<3;j++)	
	{	





	add[i][j] = a[i][j] + b[i][j];	
	}	
	printf("Addition matrix is: \n");	
	for(i=0;i<3;i++)	
	for(j=0;j<3;j++)	
	printf("%d(t",add[i][j]);	
	print( %u(t, aud[1][J]),	
	} printf("\n");	
	<pre>printf("\n");</pre>	
	getch();	
b)	Write a program to add two numbers using function.	6M
Ans:	#include <stdio.h></stdio.h>	Correct
	#include <conio.h></conio.h>	program
	void add(int, int);	<b>3M</b>
	void main()	<b>a</b> ,
	{	Correct
	int a, b;	logic 3M
	clrscr();	
	printf("Enter two number: ");	
	scanf("%d%d",&a,&b);	
	add(a,b);	NOTE:
	getch();	Any other
	}	example
	void add(int a, int b)	shall be
	{	considered
	printf("Addition of %d and %d is %d",a,b,a+b);	constacted
	}	
	}	
	Write a C program to create structure for student having data members like	
<b>c</b> )	roll_no. name and marks in 3 subjects and display % of marks as output of	6M
-,	program.	
Ans:	#include <stdio.h></stdio.h>	Structure
	#include <conio.h></conio.h>	declaratio
	struct student	2M





<pre>{     int roll_no;     char name[20];     int sm1,sm2,sm3; }s; void main() {     float percent;     clrscr();     printf("Enter student roll no, name, subject1 marks,subject2 marks ,subject3     marks :");     scanf("%d%s%d%d%d",&amp;s.roll_no,s.name,&amp;s.sm1,&amp;s.sm2,&amp;s.sm3);     percent=(s.sm1+s.sm2+s.sm3)/3;     printf("\nRollNo\tName\tPercentage");     printf("\n%d\t%s\t%.2f",s.roll_no,s.name,percent);     getch(); }</pre>	Accept elements 2M Display answer 2M NOTE: Any other example shall be considered