MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL

Mid Sem Examination Course - B.TECH.

Sem - II

/ May 2023 Section - F/G/H/Y/J

Subject Name- Computer Programming and Problem solving Time- 90 Minutes

Subject Code CS-104 Max.Marks-20

Note- Answer all questions

S. No	Question	Marks
1	Rate charts of different food items are displayed. A customer can place an order (assume quantity is 0 provided by the customer when not wishing to order that item) any item. Following rate chart (for one piece) is displayed item-wise. Burger price: 70 Pizza price: 160 Pasta price: 185 Sandwich price: 110 Write an algorithm to find and display the total bill amount for an order placed by a customer. Also, draw flowchart to find and display the total bill amount for an order placed by a customer.	2+2
5	Also, draw flowchart to find and display the total bill amount for an order placed by a customer.	
	#include <stdio.h> int main()</stdio.h>	1+2
	int num1=3,num2=2;	
	switch(num1/num2)	
	printf("Hello \n");	
	case 1:	
	printf("case 1 executed \n"); case 2:	
	printf("case 2 executed in");	
	break:	
	default: printf("default block executed\n");	
	}	
	return 0;	
	Find the sector of Col. 1	
	Find the output of the above c program. Then, rewrite the above code using if-else.	
	Write a C program to find max and min value among 3 numbers entered by the user without using if-else, switch, ternary operator (?:), arithmetic operator (+, *) or loops. You can use all other operators except the above mentioned operators. Sample Output: Enter any three numbers 123-13-569 Max number = 569 Min number = 13	3
0 S E 13 13 Ea	Write a program to ask the user to enter any two numbers, then find and display the number of ligits in each number entered by the user using a single while loop. Your program must produce ample Output for two runs:	3
	23 13	
	23 is 3 digit number, 13 is 2 digit number	1
	nter any two numbers	
6	723 -153 723 is 4 digit number, -153 is 3 digit number	

```
Write a program in C to take no of rows from the user and display the following pattern using nextend.
            Sample Output for two runs:
            Enter no of rows
            12345
             2345
               345
                45
            Enter no of rows
            3
            123
             23
6
           Find the output (or any error if any) of given c programs when you execute them using any
                                                                                                      1 + 2
           online c compiler (as used in the lab).
                                                                                                      +1+1
           You may mention "Compile Error" if the program doesn't compile successfully.
           You may mention "Runtime Error" if the program compiles successfully, but doesn't execute and
           throws an error.
                                                            (ii) #include<stdio.h>
           #include<stdio.h>
                                                            int main()
           int main()
                                                                 int i=-3, j=2, k=0, m;
                 int i = 1;
                                                                m = ++i && ++j && ++k:
                while(i++<=5);
                                                                 printf(" i=%d, j=%d, k=%d.
                printf("i=%d", i++);
                                                            m=\%d\n'',i,j,k,m);
                return 0:
                                                            return 0:
          (iii)
                                                            (iv)
          #include<stdio.h>
                                                            #include<stdio.h>
          int main()
                                                            int main()
                float x = 'a':
                                                                  float X = 3.0;
               printf("x=\%f",x);
                                                                  X = X \% 2:
               return 0;
                                                                  printf("X = \%f",X);
                                                                  return 0;
         [Note: Consider, ascii value of 'a' is 97 is given. ]
```