**Programming in ‘C’ (Assignment 1)**

Student Name : ……………………………. Enr. No. : ………………………….. Batch : …....

|  |  |  |
| --- | --- | --- |
| **Q.No.** | **Program** | **Checked** |
|  | WAP to display first 10 positive integers on the screen using while(). |  |
|  | WAP to display first 10 positive integers in reverse order on the screen using do\_\_ while(). |  |
|  | WAP to display your name 10 times on the screen. |  |
|  | WAP to display all even numbers between 1 to 50. |  |
|  | WAP to display first 20 odd numbers. |  |
|  | WAP to display the sum of first 10 positive integers. |  |
|  | WAP for multiplication table generation. (Output should be on following format)  *[ Hint : Enter No. : 6 ;*  *Output : 6x1=6*  *6 x2=12 ,*  *…”…”}* |  |
|  | WAP to display the sum of all even numbers between 1 to 100. |  |
|  | WAP to calculate nm |  |
|  | WAP to accept 10 numbers from user and find the maximum and minimum. |  |
|  | WAP to calculate the factorial of any number using function. |  |
| **WAP to calculate the following series: (where ‘n’ and ‘x’ are values, entered by user)** | | |
|  | 1 + 2 + 3 +……………..n |  |
|  | 1- 2 + 3 - 4……………..n |  |
|  | 1 + 1/2 + 1/3 + ………….1/n |  |
|  | 1/2 + 2/3 + 3/4 + ………….n/n+1 |  |
|  | 1 + x + x2 + x3 …………. xn |  |
|  | 1 - x + x2 - x3 …………. xn |  |
|  | 1 + x + x2/2 + x3/3 + ………….xn/n |  |
|  | 1 + x/1! + x2/2! + x3/3! + ………….x/n! |  |
|  | 1 - x/1! + x2/2! - x3/3! + ………….x/n! |  |
|  | 1 + x/1! + x3/3! + ………….x/n! |  |
|  | 1 + x2/2! + x4/4! + ………….x/n! |  |
|  | WAP to check entered number is prime or not |  |
|  | WAP to display the N elements of Fibonacci series. |  |
|  | WAP to display and count the all prime numbers between 1 to n. |  |
|  | WAP to find the HCF of has given two numbers. |  |
|  | WAP to find the LCF of has given two numbers. |  |
|  | **WAP to display following pattern on the screen using Nested Loop.**   |  |  |  |  | | --- | --- | --- | --- | | \*\*\*\*\*  \*\*\*\*\*  \*\*\*\*\*  \*\*\*\*\*  \*\*\*\*\* | \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\* | \*\*\*\*\*  \*\*\*\*  \*\*\*  \*\*  \* | \*  \*\*  \*\*\*  \*\*\*\*  \*\*\*\*\* | | \*\*\*\*\*  \*\*\*\*  \*\*\*  \*\*  \* | \*  \* \*  \* \* \*  \* \* \* \*  \* \* \* \* \* | \*  \*\*\*  \*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\* | \*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*  \*\*\*\*\*  \*\*\*  \* | | 1  12  123  1234  12345 | 1  22  333  4444  55555 | 1  12  123  1234  12345 | 1  121  12321  1234321  123454321 | |  |
|  | WAP to accept any number and print in vertically.  *[ Hint : 256 then answer should be*  *6*  *5*  *2 ]* |  |
|  | WAP to accept any number and print in reverse order.  *[ Hint : 256 then answer will be 652 ]* |  |
|  | WAP to accept any number and display the sum of its each digit.  *[ Hint : 256 then answer will be 2+5+6=13 ]* |  |
|  | WAP to accept any number and display the sum of its each digit until you get single digit.  *[ Hint : 7868 then answer will be 7+8+6+8=29; 2+9=11; 1+1=****2*** *]* |  |
|  | WAP to accept any number and check whether it is Armstrong or not.  *[ Hint : 153 is an Armstrong no because 13+53+33=153]* |  |
|  | WAP to check the entered number is palindrome or not.  *[ Hint : 15351; in reverse also 15351]* |  |
|  | WAP to accept any *decimal* number and convert into *binary*. |  |
|  | WAP to accept any *binary* number and convert into *decimal*. |  |
|  | WAP to accept any *decimal* number and convert into octal. |  |
|  | WAP to accept any octal number and convert into decimal. |  |
|  | WAP to accept any *decimal* number and convert into hexadecimal. |  |
|  | WAP to accept any hexadecimal number and convert into decimal. |  |