INSTITUTE OF ENGINEERING
ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT
KUPONDOLE, LATTIPUR
(AFFILATED TO TRIBHUVAN UNIVERSITY)

LAB REPORT

LAB NO.: 4

SUBJECT: C PROGRAMMING

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SUBMITTED TO:

DEPARTMENT OF
COMPUTER &
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1) WAP that asks a no. & test the number whether it is multiple of 5 or not, divisible by 7 but not by eleven.

```
#include <stdio.h>
void main() {
    int num, rem1, rem2, rem3;
    printf ("Enter the given no.");
    scanf ("%d", &num);
     rem 1 = num % 5
     rem 2 = num % 7
     rem 3 = num % 11
    if (rem1 = 0).
{
  printf("the no. is multiple of 5");
}
else {
    print f("the no. entered is not multiple of 5");
    }
 If (rem 2 == 0 && rem 3 == 0)
   {
    printf ("the no. is divisible by both 7 & 11 ");
   }
 else if (rem 2 == 0  && rem 3 ! = 0).
 {
  print f("the no. is divisible by 7 but not by 11");
 }
 else if (rem 2! = 0 && rem 3 == 0)
  {
   print f ("the no. is not divisible by 7 but divisible by 11");
  }
  else {
    print f ("the no. is neither divisible by 7 nor divisible by
                    11");
   return 0;
    }
}.
```

2) WAP to generate & print all the prime no. betn the range specified by users.

```
#include <stdio.h>
#include <conio.h>
    void main() {
        int n1, n2, rem, count, i;
        printf ("Enter the range");
        scanf ("%d%d", &n1, &n2);
        while (n1<=n2) {
          count = 0;
          For (i=1, i<=n1, ++i) {
            rem = n1 %i;
            if (rem==0),
              count++;
            }
          if (count == 2)
           printf ("%d", n1);
             ++n1; }
        getch();
    }.
```

3) WAP to generate fibonacci number.

```
#include <stdio.h>
  int main ( ) {
    int n, a, b, i, temp;
  printf ("How many term would you like to print:-");
  scanf ("%d", &n);
   a=0
    b=1
  printf ("The fibonacci series up to %d therm are:-
                \n ", n);
  for ( i = 1 ; i<=n ; i++)
  {
    Printf ("Term %d is : %d\n", i, a);
     temp =a+b;
       a=b;
       b= temp;
    }
  }.
```

4) WAP to calculate HCF & LCM of two integers provided by users.

```
#include <stdio.h>
  int main() {
      int a, b, min, hcf;
    printf("Enter a number.");
    scanf("%d", &a);
     printf("Enter another number");
    scanf("%d", &b);
      if (a<b) {
       min = a;
      } else
      {
        min = b; }
     For (int i=1; i<= min ; i++)
       {
         if ((a%i==0) && (b%i==0)) {
          hcf = i;
       }
     }
    printf ("hcf = %d", hcf);
     int lcm = a*b / hcf;
    printf ("lcm = %d", lcm);
     return 0;
    }.
```

5) WAP to read set of no. until user wants & calculate & print maximum & minimum value.

```
#include <stdio.h>
int main() {
    int no., max=0, min = 32767;
    char choice;
    do {
    printf("Enter a no:-");
    scanf("%d", &num);
    if (no > max).
    {
      max = no.;
    }
      if (no. < min)
      {
        min = no.;
      }
printf("Do you want to continue (y/n) ?");
scanf("%c", &choice);
}
while (choice == 'y' || choice == 'Y');
printf("\n Max. No. %d\n Min. No:- %d", max, min);
return 0;
}.
```

6) WAP to calculate & print the term of following series up to nth term
-10 -12 -14 -18 -26 -42 -74.

```
# include <stdio.h>
  int main () {
      int tn = -10 , i, n ;
      printf ("Enter the no. of term yo want to print :- \n");
      scanf ("%d", &n );
      for (i= 1; i<=n; i++ )
      {
        print ("%d \t", tn );
         tn = -10-pow (2, i);
       }
      getch();
     }.
```

Conclusion & Discussion

In this fourth lab of C programming based or the focused objective to understand about loop constructs for programming loop generations : while , do - while, for loops . This lab exercise made me more confident towards the fulfillment of the objectives.