INSTITUTE OF ENGINEERING ADVANCED COLLEGE OF ENGINEERING & MANAGEMENT

KUPONDOLE, LATTIPUR (AFFILATED TO TRIBHUVAN UNIVERSITY)



LAB REPORT

LAB NO.: 4
SUBJECT: COR

SUBJECT: C PROGRAMMING

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SUBMITTED TO:

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DEPARTMENT OF COMPUTER &

DATE: 2077/02/07

ELECTRONICS

```
TITIT : Introduction to looping techniques
             in C-programming.
```

OBJFCTIVE .

To learn about lopping techniques.

THYORY:

Repetitive structure /100p structure. Repetition meuns executing the some section of code more than once. In repetition structure, a segunce of steps which is specified once, muy be executed for a Specified number of times or until same condition is met.

c provides 3 loop constructs for programming loop generations:

· While

· do - - while

o for.

a) While statement

It specifies that a section of code should be executed while a certain condition holds true.

Syntox:

While (test-expression)

spools of loob

Example.

include <stdio. h> # include < conio.h>

Moid main ()

int n=1, count=0; while (nx=10).

```
while (ne 210)
   ર્
      (ount ++;
       n++;
     3
   3
b) The do - . while loop statement.
  It also specifies that a section of code should be executed
while a certain condition holds true.
Syntax .
  90
   spood of 100 b
     while (test - expessio)
Frample
# include <stdio.hx
# include < confo. hb
  void main()
     into n=1, count=0;
     do s
       count ++;
        ntt;
      3 while (nx=10);
My The For loop stedement.
  It is used to execute a block of code for a fixed
 no. of repetition.
 Syntax:
  for (initilization; lest-expression; update expression)
   & poops of 100b
     <u>ર</u>ુ.
```

```
# include < stdio. h)

# include < conio. h>

Void main()

int num, (ount),

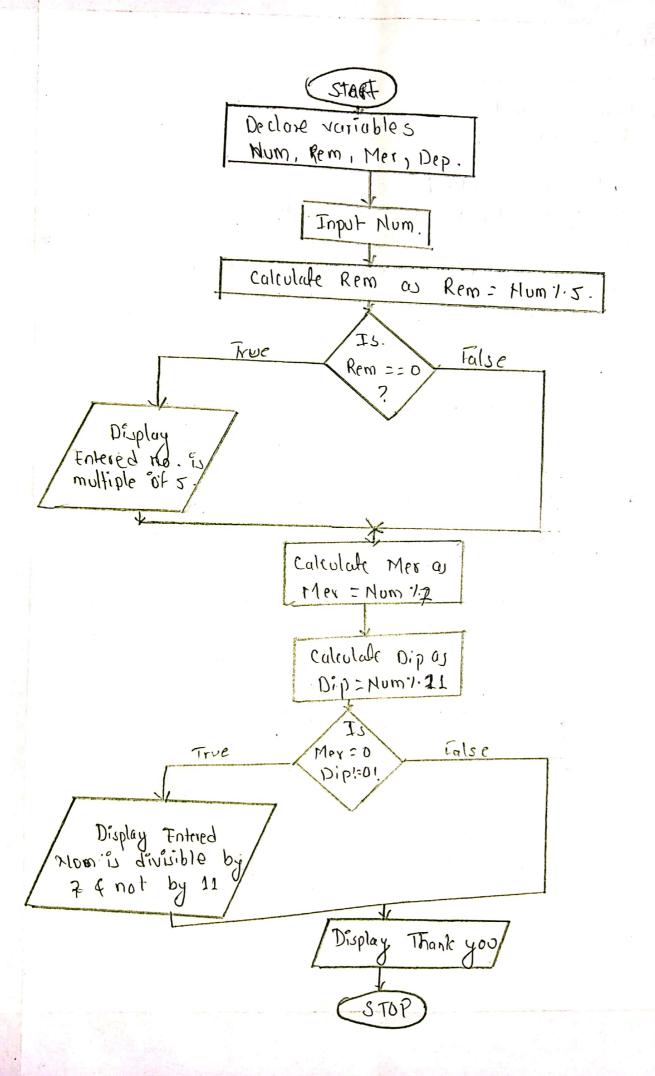
printf ("ther the no. of star:");

scanf ("', d", & num);

for (count = 0', count < num; (ount++)

{
print ("*");

}
```



1) WAP a program that a no. of test the no. wheather It is multiple of 5 or not, dividele by 7 but hot by eleven.

Step 1: Start

Step 2: Declare variable Num, Rem, Rer, Dip,

Stop 3: Input Hum

Step 4: Calculate Rem or Rem = Hum 1.5

Step 5: It Rem=0, goto step 6 else goto step 7

Step 6: Display the enlared number as multiple of J.

Step 7: colculated Mer as Mer = Num 1.7.

Step 8: Calculate Dip as Dip = Num 1.11

Step9: If Mer= 0 & Dip +0 then go to step 10 else go to step 12.

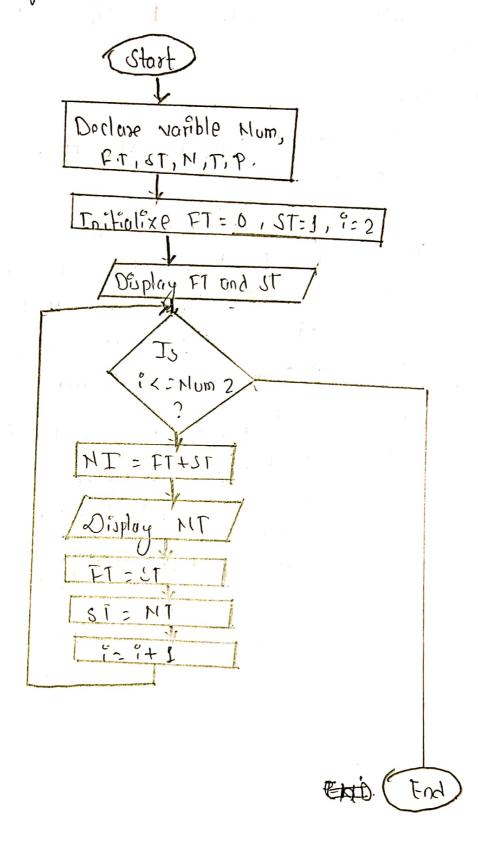
step 10: Display ou the entered no. is dividée by 7 but not divide by 11.

Display thenk you f goto step 13

Step 12: Display thank you.

Slep 13: End.

Flowchart to generale first n fibonce number.



3) KIAP to generale first n Fiboncc i number

Step 1 : Start

Step 2: Dellor voriable Num, FT, ST, NT, i

Step 3: Input Num

Step 4: Intialize IT=0, ST=1, i=1

Step 5: Diplay FI & ST

Step 6: If is (Nom-2) go to step 7 else goto step 12

Step 7: Assign value of Mi as MI=FI+ST

Step 8: Display rit

Step 9: Assign value of FT of FT=ST

Step 10: Assign value of ST as ST=HT

Step 11: Increase the value of iby 2 io i=i+1 & go to step 6

Step 12: stop.

al WAP to calculate HCF & LCM of two integer. Provided by wer. Step 1: Stort Step 2: Declare variable o,b, C,d, rem, HCF &CM. Step, 3: Read CIRP Step 4: C24, d=b Step 5: rem = c mod d if rem=0 H(t = 9 goto stepx else., C= 9 d= rem go to step 5 Step 6: Print HCF Step 7: L(M = (0xb) H(F Step 8 : Print L.C.M. Step 9: STOP.