## compilation & Execution of C Bogram:

\* compiling is the transformation from Source Code i.e. computer human readable code into machine code i.e. computer executable.

\*. A compiler is a program.

A compiler takes the Source code written in High Lever fanguage and transforms this code into machine Language that can be understoop by computer itself.

- \* The compiler ensures that your program is
  - \* The compiler ensures that your program is syntaptically correct.
- togically correct.

Steps for Compilation 4 Execution

step2:

tep1. 1) Write the source code in any Text Editor (like notepad)

Save the file as filename. C extension.

File > save as > A didg box will appear >

Choose the desired Location where you want to save the Gource code file >

Click on Save button.

Step3: Open Command Prompt. Start > Rum > A Run panel will open type cmd press enter.

Step 4: Locate your pointer to the location where you saved your source code of c file.

Cd "path/&

Cd - change directory

[cd.] // to locate one folder backword

Step-5 Cd " C:11 users 11 Desktop"

after Jocating to desired position (folder Location) directory)

type

> gcc filename. C -ofile\_name

Source

press enter.

( your source code will be compiled).

Step 6: To execute the compiled code type in cmd

> file\_name
press enter

\* The desired output will be prompted to the output screen ( cmd).



```
Project to check whether a given number is even or odd.
```

```
# include < stdio. h >
void main()
  int num;
  printf ("Enter a number (n");
  Scanf ( "%d", 2 num);
 if (num % 2 ==0)
 pointf ("The given number % d is even, num);
else
printf ("The given number % d is odd", num);
    getch ()
```

```
w.A.P. in C to point Sum of first n numbers
#include (Stdio.h)
void main ()
   int in, sum = 0;
  printf (" Enter the value of n/n");
  scanf ("/d", 2n);
  for ( i=1; i <= n; i++)
       Sum = Sum + h;
 pointf ( "The sum of first /d number is %d",
        n, Sum);
```

getch ();

```
Frg 34.
Number
number
#include (stdio.h)
# include < conio.h >
void main()
  int num, sum = 0, rem;
 printf ("Enter a number In");
 Scanf ("y.d", & num);
 white ( num 1 = 0 )
rem = num% 10;
    Sum = Sum + rem;
   num = num 10;
paintf ("sum of digits of entered number
 = % d \n ", sum);
getch ()
```

```
w.A.P. in C to reverse the digits of
 a number.
 #include < Stdio.h >
 # include < conio. h >
  void main ()
      int hum, o
     point (" Enter a number")
     printf (" | h");
     Scanf ( "% d", 2 num );
     printf ("Reverse of the number is \n");
005
  7 = num /0 10;
    printf("1.d", r);
    num = num/10;
  3 while (num 20);
```

getch ()

```
Rog. y.
W.A.P. in C to print fibonacci numbers.
0,1,1,2,3,5,8,13,21,34,55,89,141.
fo = 0
 f. = 1
fn = fn-1 + fn-2
#include < stdio.h >
# include < conio.h >
void main()
{ int i;
  int a = 0;
  int b = 1;
  int c;
 pointf ("Enter the limit");
 scanf ("/d", 2n);
 for (i=0; i <= n; i++)
      printf ( "/.d In", a);
        C = Q + 3j
        a=bj
```

b=Ci

```
getch();
Method 2
  #include (Stdio.h)
   int fib (int n)
    Eint f[n+1];
      int i;
     f[0] = 0;
     f[1]=1;
  for ( i=2; i(=n; i++)
       f[i] = f[i-1] + f[i-2];
       return f[n];
     void main ()
```

int n; Scanf ("1.d",4 n); printf ("/d", fib(n)); getch ()

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++1, 4-1

\* W.A.P. in C to point patterns of pyramid stars \* \* \* \* # include < Stdio.h > void main() { int row, col, n, temp; printf ("Enter the number of rows in pyramid of starpin") Scanf ("Y.d", & n); temp = n; for ( row=1; row <= n; row++) for ( col= 1; col < temp; col++) { printf(" ");

for (col=1; col <= 2 \* row-1; col++) printf (" \* "); printf ("\n"); getch (); \*\*\*