

### Sum and Reverse of a number

Aim: To find the sum and reverse of a number using C program

#### Algorithm

step 2: read number num

Step 3: set sum = 0 and rev = 0

Step 4 : Repeat steps 5 to 8 While num >0

Step 5: set d= num% 10 step 6 ; set num = num/10

Step 7: set sum = sum +d

Step 8: set rev = (rev x 10) + d

Step W: stop

Step 9 ! print sum, rev

```
Program
```

```
thinclude (stdio.h)

int main()?

int num;

int d, rev=0, sum=0;

printf("Enter the number: ");

scanf("%d", &inum);

while (num>0)?

d= num %00;

num/=10;

sum +=d;

rev = (rev *10)+d;

printf("Revene of number is %d\m Sum of cligits is %d",

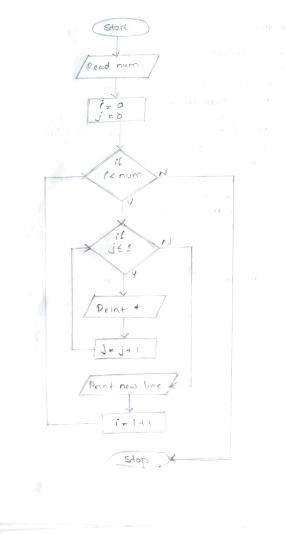
rev, sum);

return 0;

}
```

```
Start
                                                                           FIBONACCI NUMBERS
Read num
                                                          Aim: To find the first n fibonacci numbers
   count , 2
                                                          Algorithm
Print first, second
                                                          Step 1: Start
                                                          Step 2 : read the value of num
                                                          step 3: initialize first = 0, second = 1 and count = 2
                                                          Step 4: print first, second
                                                          Step 5: Repeat steps 6 to 9 While count < num
  third & first + second
                                                           step 6; set third = first + second
 Print third
                                                           step 7: print third
                                                           step 8: set first z second, second = third
                                                           Step 9 : in crement count by 1
     count = count + 11
                                                           Step 10: stop.
        Stop )
```

```
Stort
                                                                    Programs
                                                                    #include astdio.n>
                                                                    int main () §
                                                                        int first =0, second=1, third, num;
                                                                        printf ("Enter the value : ");
                                                                        scanf ( " gd", &num);
                                                                        printf (" First &d fibonacci number one ! ", num);
                                                                        printf (" ?d, 2d", first, second);
                                                                         int countra;
                                                                         while (count < num) }
                                                                             third = first + second;
                                                                              printf(", &d", third);
                                                                              first = Second;
                                                                               second = third;
                                                                               count ++;
                                                                         return 0;
       Stop
```



### PYRAMID USING ASTERISK

## Aim: To create a pyramid using osterisk (\*) in C

### Algorithm

Step 1: start

Step 2: declare i,j, num

Step 7: print +

Step 3 : read number num

Step 4: initialize izo, j=0

Step 5: repeat steps 6 to 10 while ix num

Step 6: repeat steps 7,8 while j <= 1

Step 8: increment j by 1

Step 9 ! print new line

Step 10: increment i by 1 Step 11 : Stop

# Program

```
Hinclude (stdio.h)

Int main () {

int num;

printf("Enter the number;");

scanf("?d", & num);

int i = 0;

while (i < num) ?

int J=0;

while (j<=i) {

printf(" + ");

}

printf('\h');

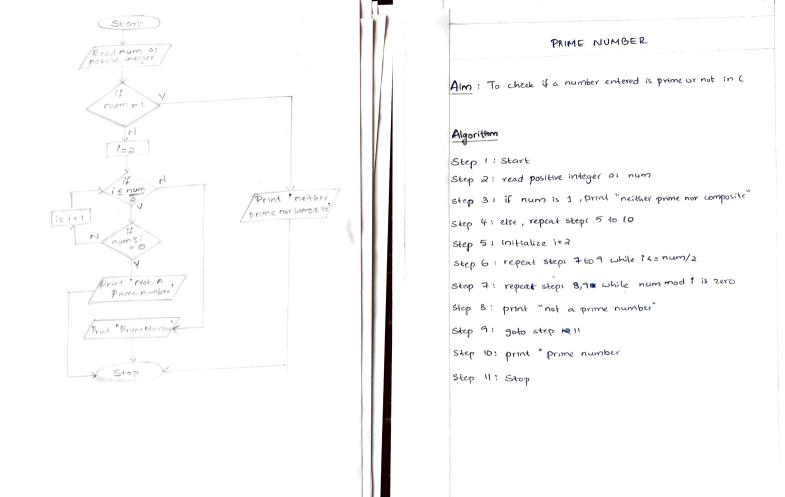
i++;

}

return 0;
```

```
Start
                                                                      COUNTING THE NUMBER OF WORDS
Read Sentence
                                                                               IN A SENTENCE
                                                           Am: To count the number of words in a given
   count = 0
    1=0
                                                                   Sentence using C
                                                            Algorithm
N sentence
not empty
                                                            Step 1: Start
  countecountel
                                                           Step a: declare sentence [100], count=0, 120
                                                           Step 3: read sentence
                                                           Step 4: repeat steps 5 to 9 if sentence is not empty
                                                           Step 5: increment count by 1
                                                            Step 6! repeat steps 7,8 until the end of the sentence
                                                           Step 7: if sentence (i) equals '', increment count by 1
                                                           Step 8: increment i by 1
    count + count +
                                                           Step 9 ! print count as number of words
                                                           Step 10 : stop.
    Print count
         Stop
```

```
Program
Hinclude Kstdio.hs
#include <string. h>
Int main () $
    char sentence[100];
     int count = 0;
     printf ("Enter the sentence: ");
     gets (sentence);
     if (sentence CO] ! z NULL) {
         count ++;
          for Cintizo; sentence Cij 12'10'; i++){
                 if Gentence [i] = z 1 1)
                       count ++;
          printf ("2d", count);
       return 0;
```



```
Program
#include < stdio.h>
int main() {
   int num;
   printf ("Enter a positive integer: ");
    scanf("6d", &num);
    if (num == 1) }
        printf("1 is neither prime nor composite");
    else }
         for (int i=2; i/= num/2; i++) }
             if (num % i ==0) }
                   printf (" &d is not a prime number, num);
                    exit(0);
               3
           3
          printf (" Ed is a prime number", num);
    return 0;
3
```