```
White a program to prompte the user to input 3-
digit no. & print there value in forward & reversed
order
# include <stdio. h>
 void main() {
          int num, rem, rev =0, Fo; 1011
          print fl'Enter a three digit no: 1);
          sconf (" > d", & num);
           Fo = num;
           rem = num y.10;
           ren = Len * 10 + Low.
           num = num (10 ! ] ] asar plant
           rem = num y. 10;
            Yeu = Yeu * 10+ rem;
            num = num 110;
            rem = num".10;
            Yeu = rux10+ rm;
            num = num (10.;
        print (" Forward order = x d \ n ", fo;
         prinf (" Reversed order = y. d. vev;
         geteh (); / / many / 1)
   Foter a three digit no. 653
    Forward Order = 653
```

Removed Order = 356

Out put

output	
Enter the value of	x 4 4 ? .
13	J
23	
Output	
Before swapping	number:
13 220	
After swaping	•
After swaping 22 13	

```
Wolfe a program to find given no. is palindrone or not.
# Pnclude < stdio. h>
# include < conio.h>
 int moin ()
    int n, reversed N=0, rem, original N;
    print f (" Enter on integer; ");
    Scanf ("y.d; fn);
     Onginal N = n;
      while (n ! = 0).
             rem = n 1. 10;
             reversed N = Kuersed N x 10+ xm;
              n 1=10;
         if Conginal XI == revossed XI)
          print f ("y.d is a palindrome.", original H);
           printf ("1.d is not palindrome.", original N);
         return o:
```

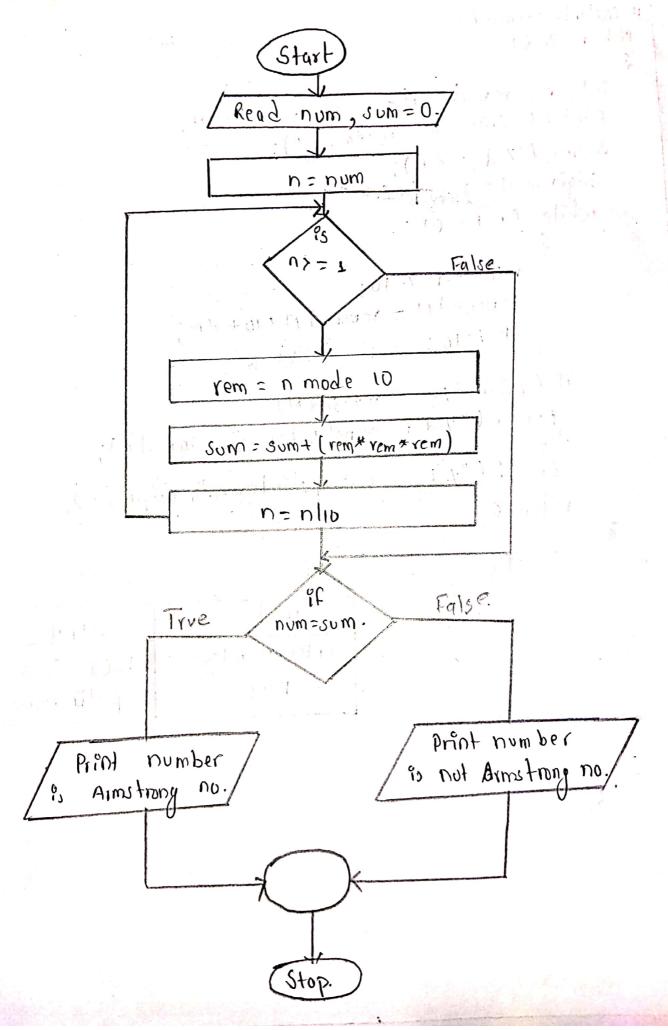
ş

input	outpul
Enter an integer:	1001 is a palindome.

```
Write a program to find given no. Po Armstrong
# include < stdio.h)
ent main () &
     int num, original Num, rem, r = 0;
     print ("Enter a 3 digit no: ");
      Sconf (" y.d ", & num);
      Original Num = num ,
      while Coniginal Num 1=0)
           rem = original Num 7.10;
            Y += rem * rem + rem;
            original Num /= 10;
        if (result == num)
           print f("7. d is Armstrong no. "; num);
        6/86.
           print f("Y.d is not Armstrong no."; num);
        return 0;
```

input	Out put
Enter a 3 digit no.:	371 % an Arm-
321	strong no.

Flowchart for Armstrong number



Write a migrim to find given no. is Armstrong or not.

Step 1: Start

Step 2: Declear variable sum, temp, num.

Step 3: Read num from wer.

Step 4: Initialize workable sum = 0 & temp=num.

Step 5: Repead until num >= 0

5.1: sum = sum + cube of last digit ie. T(num)/o

10) * (num/110) * (num/10) J.

5.2: num = num 10

Step 6: If sum == temp.

print "Armstrong Number".

The.

Print "Not Armstrong Number".

```
Write a program to theck odd or even no.
a) Using Rodulas operator.
# "netude < std"o. h.
    void main () {
           int num, rem;
            print ("Enler a no =11);
           Sounf ("1.d", & num);
            18m = num 1.2
              1em = 0?
              Printf (" Fintered no. 9, even");
              Printf (" Entered no. 50 odd");
          geleh ();
        Foter a no. = G
         Entered no. is even.
b) Using conditional operator.
# include <stdio.h>
  you minn () &
         · int num, mm;
          printf ("Fnter a no.=");
          scanf ("Y.d", & num);
           10m = num 1. 2;
           ft (rem = : 0)
           printf ("Entered no. & even");
           ielse a
               Printf (" Entered no. & odd"):
         gelen();
          Enter a no = 10
          Entired no. is even.
```

Write on algorithm to check add or even no."

Using modulus operatur.

Step 1: Start

Step 2: Declare variable num, rem

Step 3: Input value of num.

Step 4: ram = num % 2

Step 5: If rem == 0 then goto step 6.
Flee goto step 7.

Step 6: Display nom 32 even no.

Step 7: Display num is odd ono.

Step 8: stop.

ii) Using conditional operator.

Step 1: Start

Step 2: Declare variables num, rem.

Step 3: Input value of num

Step 4: rem = nem 1.2

Step 5: rem == 0? Print ("Even no." 1; print ("odd no.")

Step 6: Stop.

#Wille an algorithm to print size of char, float double & long double data types in c. Step 1: Start Step 2: Declare variables of char as 'ch' float as' b' double ask, & long double as d'. Step 3: Display space occupied of char is size of (ch) Step 31: Display space occupied of float is size of (b) Step 3.2: Display space occupied of double is size of (1) Step 3.3: Display space occupied of long double is size ofld). Step. 4: Stop. # include < stdio. h> vioin main() & char (h; float b; double c; long double c; printf ("space occupied by char data types " '. din' size of (ch)); Printf ("space occupied by flow data type is reti". sixe of (b)); Print f ("space occupied by double data type is 7. aln"; size of (()), Print ("space occupied by long double dute type is ited In ;; gelch () Space occupied by char datatype & 1 Space occupied by flood dula type is < Space occupied by double data type & Space Occupied by long double data type is 16.

Conclusion & Discussion.

In this second lab of C Programming based or the focused objective to understand about C data type with formalled input loutput function the additional lab evercise made me more confident towards the fulfill ment of the objectives.