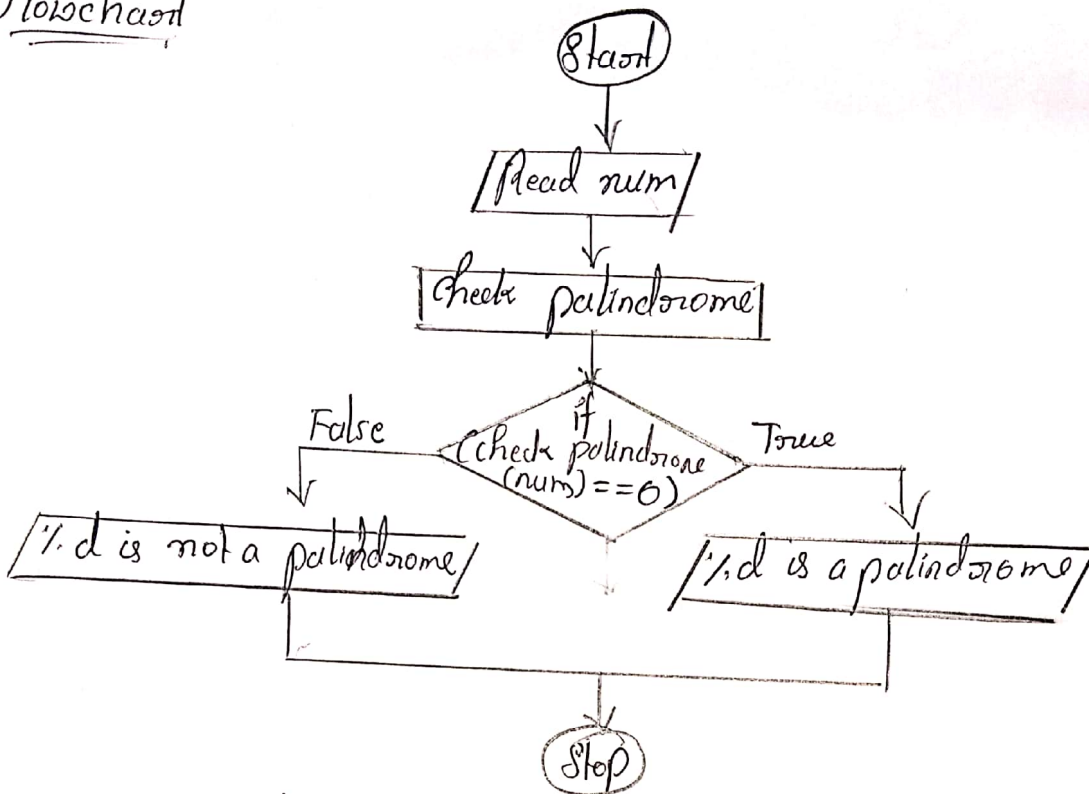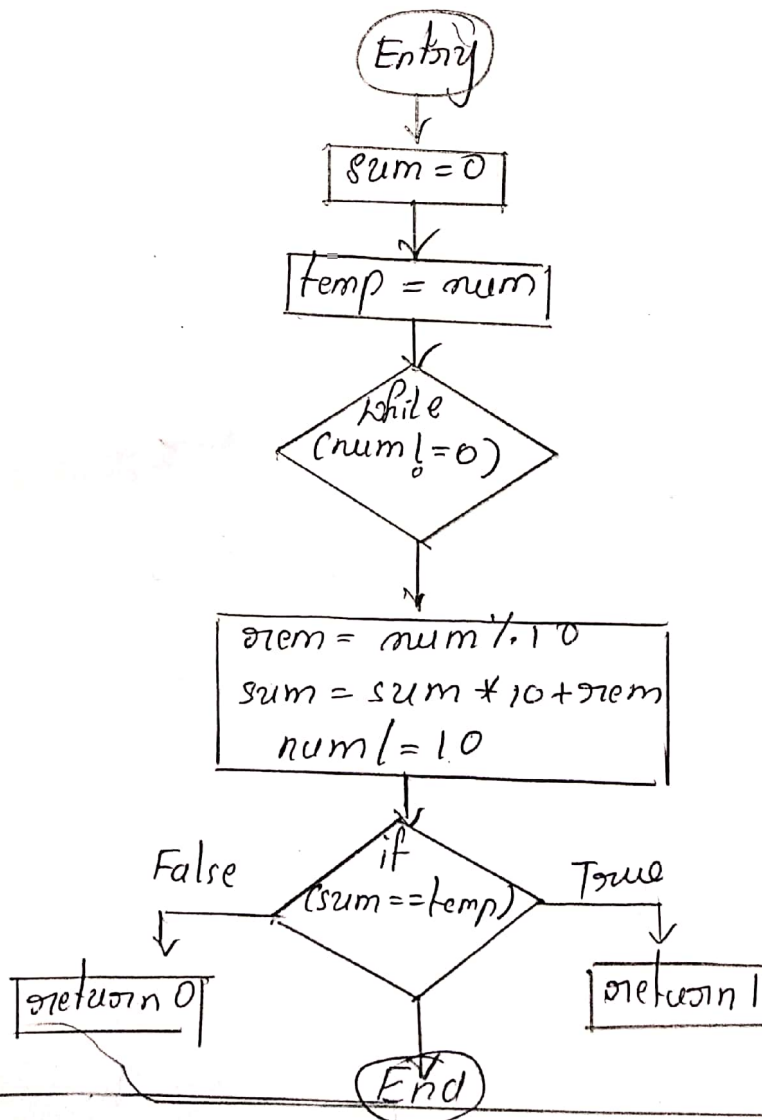Algorithm
Step 1: Start
Step 2: Read num
Step 3: Check palindrome ()
Step 4: if (check palindrome (num) = = 0)
display %d is a palindrome
else

Display %d is not a palindrome
Step 5: Stop

Check palindrome (int num)
Step 1: Entry
Step 2: sum = 0
Step 3: temp = num
Step 4: while (num != 0)
rem = num % 10
sum = sum * 10 + rem
num /= 10
Step 5: if (sum == temp)
return 0
else
return 1

step 6: Sto End.

Flowchart

Start

Read num

Check palindrome

if
(check palindrome
(num)==0)

False → % d is not a palindrome

True → % d is a palindrome

Stop

Check palindrome (int num)

Entry

$sum = 0$

$temp = num$

while
$(num \ne 0)$

$rem = num \% 10$
$sum = sum * 10 + rem$
$num \mathrel{/}= 10$

if
$(sum == temp)$

False → return 0

True → return 1

End

Code, Compile & Run

| Ide ✖ | + |

| GANAVI | Problem Code/Name (e.g. TEST) | Select |

| C (gcc 6.3) ▾ | 💾 | 🗑 | Code gets autosaved every second | | ℹ | ⬇ | ↗ | ⚙ |

```
 2   int isPalindrome(int num);
 3   int main()
 4  {
 5      int num,result;
 6      printf("Enter the number:\n");
 7      scanf("%d",&num);
 8      result = isPalindrome(num);
 9      if(result==1)
10          printf("%d is Palindrome number\n",num);
11      else
12          printf("%d is not an Palindrome number",num);
13      return 0;
14  }
15   int isPalindrome(int num)
16  {
17      int rnum=0,r,n;
18      n=num;
19      while(n>0)
20      {
21          r=n%10;
22          rnum=rnum*10+r;
23          n=n/10;
24      }
25      if(rnum==num)
26          return 1;
27      else
28          return 0;
29  }|
30
```

28:1   ⟳

| Open File | | ✓Custom Input | Run |

Custom Input
6996

| Status Successfully executed   Date 2020-06-29 09:54:02   Time 0 sec   Mem 9.424 kB | ✖ |

Input
6996

Output
Enter the number:
6996 is Palindrome number