EX 5

PROGRAM TO CHECK WHETHER A GIVEN NUMBER IS ARMSTRONG NUMBER OR NOT?

DATE:

EX 5: AIM:

Program to check whether the given number is Armstrong number or not

ALGORITHM:

```
Step 1: Start
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Step 2: Declare Variable sum, temp, num

Step 3: Read num from User

Step 4: Initialize Variable sum=0 and temp=num

Step 5: Repeat Until num>=0 5.1 sum=sum + cube of last digit i.e [(num%10)*(num%10)*(num%10)] 5.2 num=num/10

Step 6: IF sum==temp Print "Armstrong Number" ELSE Print "Not Armstrong Number"

Step 7: Stop

PROGRAM:

```
#include<stdio.h> int
main()
{ int num,copy_of_num,sum=0,rem;
 printf("\nEnter
                         number:");
                   a
 scanf("%d",&num); while (num !=
 0)
  \{ rem = num \% 10; sum = sum + \}
   (rem*rem*rem); num = num /
   10:
  } if(copy_of_num ==
  sum)
   printf("\n%d is an Armstrong Number",copy_of_num); else
   printf("\n%d is not an Armstrong Number",copy_of_num);
  return(0);
```

OUTPUT:				
ourer.				
Enter a number: 370 370 is an Armstrong Num	ber			
RESULT: Thus the C Programme executed and the output w	am to check whether as verified.	a given number is	Armstrong or not h	ias bee
r				