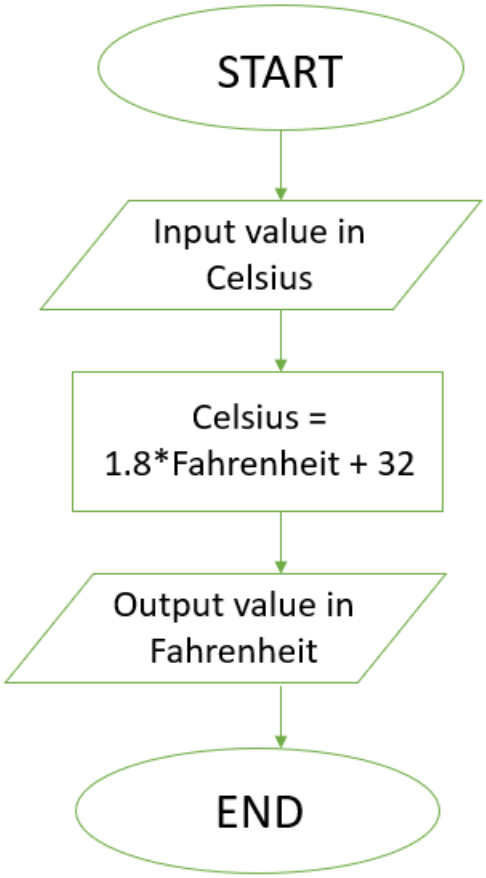
Program 1: Write a program to convert Celsius into Fahrenheit

ALGORITHM

1. Accept Celsius value from the user.
2. Use formula Fahrenheit=1.8*Celsius + 32.
3. Answer gets displayed in Fahrenheit as its unit.

FLOWCHART



CODE

```
#include <stdio.h>

int main()
{
   float celsius;
   printf("Enter a number to represent Celsius value");
   scanf("%f",&celsius);
   double fahren=1.8*celsius+32;
   printf("value in Fahrenheit is %f",fahren);

   return 0;
}
```

OUTPUT

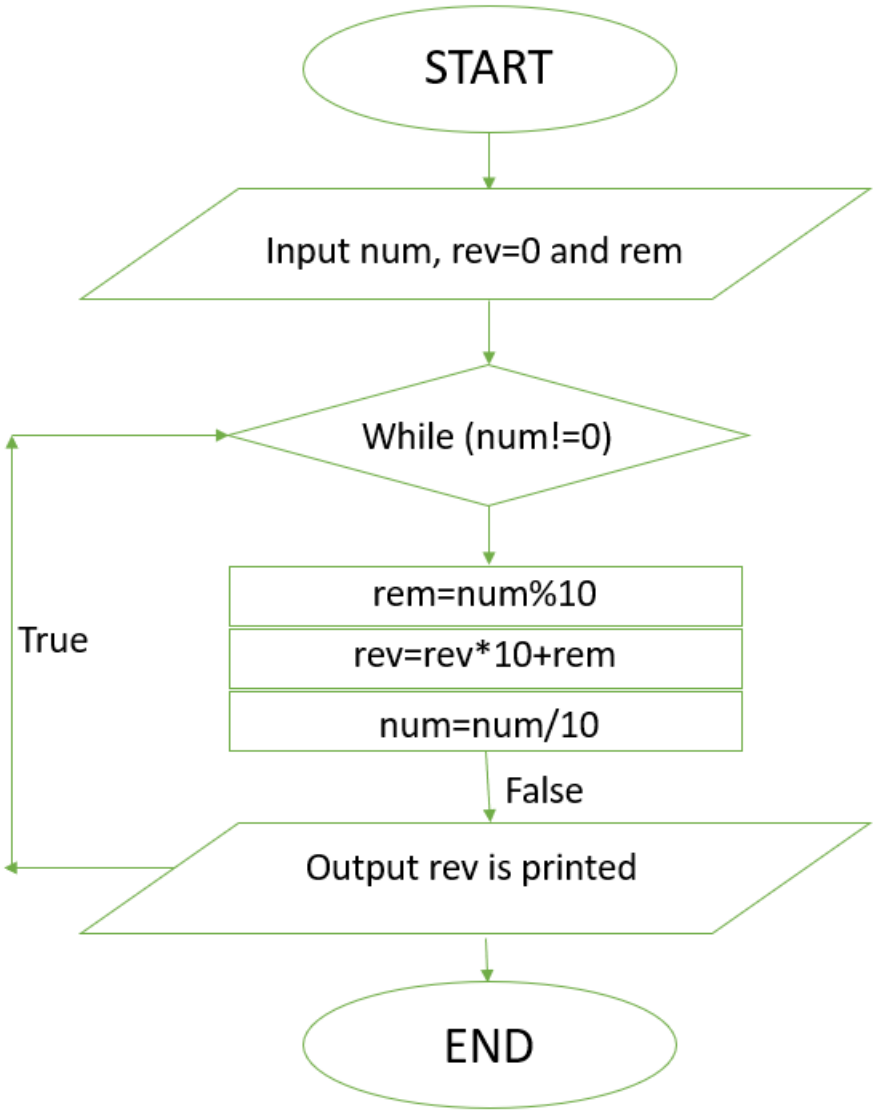
```
Enter a number to represent Celsius value 19

value in Fahrenheit is 66.200000
```

Program 2: Write a program to reverse the digits of a number inputted by the user

ALGORITHM

1. Accept a number from the user.
2. Store the value in variable num and define variables rev and rem.
3. Start while loop with TestExpression:num!=0
4. The loop starts executing itself if TestExpression is true.
5. Digits of inputted number can be separated by rem=num%10
6. Number can be reversed by rev=rev*10+rem
7. A new value of num is defined by num=num/10 and the loop repeats.
8. The loop repeats until TestExpression becomes false. After the loop terminates, we get our answer.

FLOWCHART


START
Input num, rev=0 and rem
While (num!=0)
True
rem=num%10
rev=rev*10+rem
num=num/10
False
Output rev is printed
END

CODE

```
#include <stdio.h>
int main() {
    int num,rev=0,rem;
    printf("Enter an integer");
    scanf("%d",&num);
    while (num!=0) {
        rem=num%10;
        rev=rev*10+rem;
        num=num/10;
    }
    printf("The reverse of given number is=%d",rev);
    return 0;
}
```

OUTPUT

```
Enter an integer 345
345
The reverse of given number is=543
```