2022-2026-CSE-B

Aim:

Write a program to find the reverse of an integer number and check whether it is Palindrome or not.

Exp. Name: Write a C program to calculate whether a given number is Palindrome

At the time of execution, the program should print the message on the console as:

```
Enter an integer :
```

For example, if the user gives the input as:

```
Enter an integer : 2014
```

then the program should print the result as:

```
The reverse of a given number : 4102 2014 is not a palindrome
```

If the input is given as [1221] then the result should be:

```
The reverse of a given number : 1221 1221 is a palindrome
```

Source Code:

Program421.c

```
#include<stdio.h>
int main()
{
   int num, rem, rev=0, num1;
   printf("Enter an integer : ");
   scanf("%d",&num);
   num1=num;
   while(num1!=0)
      rem=num1%10;
      rev=rem+(rev*10);
      num1=num1/10;
 }
   if(num==rev)
      printf("The reverse of a given number : %d\n",rev);
      printf("%d is a palindrome\n",num);
 }
   else
      printf("The reverse of a given number : %d\n",rev);
      printf("%d is not a palindrome\n",num);
}
   return 0;
}
```

Test Case - 1
User Output
Enter an integer : 2017
The reverse of a given number : 7102
2017 is not a palindrome

Test Case - 2
User Output
Enter an integer : 1221
The reverse of a given number : 1221
1221 is a palindrome

Test Case - 3
User Output
Enter an integer : 12321
The reverse of a given number : 12321
12321 is a palindrome

Test Case - 4
User Output
Enter an integer : 18771
The reverse of a given number : 17781
18771 is not a palindrome