Aim:

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

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

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

```
Enter an integer :
```

For example, if the user gives the **input** as:

Palindrome or not

```
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