```
S.No: 15
```

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;
```

Т	est 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	