Problem NO: 3
problem Name: Write a C program to check whether a number is palindrome or not.
Sample Input Output:

Input   Output
123   Not Palindrome

121   palindrome

Source Code:

#include<stdio.h>


```c
int palindrome( int a)

{

   int reminder, reversednumber=0;

   int originalnumber=a;

   while (a>0)

   {

      reminder=a%10;

      reversednumber= reversednumber*10+ reminder;

      a= a/10;

   }

   if (originalnumber==reversednumber)

   {

      return 1;

   }

   else

   {

      return 0;

   }

}
```

```
int main()
{
  int a;
  scanf ("%d",&a);
  if (palindrome(a))
  {
    printf ("Palindrome");
  }
  else
  {
    printf ("Not Palindrome");
  }
  return 0;
}
```

Result and Analysis:

User will input a number and the code will check whether it is palindrome or not.
The palindrome function will check the original number and whether the reverse number is the same or not. If it is the same, then it will return true otherwise false. In the main function if the sub function is true, it will execute properly