**TASK-12**

Palindrome

**EXPLANATION:**

Modify task-11 of lab 3 so it may accept integer of any length to determine whether its palindrome or not

**INPUT:**

#include <iostream>//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Libraries\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#include <cmath>

#include <conio.h>

#include <stdlib.h>

#include <windows.h>

using namespace std ;

int continuationLoop ()

{

bool check = true , flag = true ;

char option ;

while ( check )

{

system("CLS") ;

cout << "Do you want to continue (y/n) : " ;

option = getch() ;

if ( option == 'y' )

{

system ("CLS") ;

return 1 ;

}

else if ( option == 'n' )

{

return 0 ;

}

}

}

main ()

{//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Variable decleration\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

bool flag = true ;

while ( flag )

{

long long int number , num , remainder , digits = 0 , z , i ;

cout << "Please enter a number : " ;

while ( ! ( cin >> number ) )

{

cin.clear () ;

cin.ignore ( INT\_MAX , '\n' ) ;

cout << "Error !! Please enter an integral value. " ;

Sleep (1000) ;

system ("CLS") ;

cout << "Please enter a number : " ;

}

num = number ;

while ( number != 0)

{

remainder = number % 10 ;

digits = ( digits \* 10 ) + remainder ;

number /= 10 ;

}

system ("CLS") ;

cout << "The number in backward is " << digits << endl ;

if ( digits == num )

{

cout << "number is palindrome!! " << endl ;

}

else

{

cout << "number is not palindrome!! " << endl ;

}

system ("pause") ;

flag = continuationLoop() ;

}

}

**OUTPUT:**





