**TASK-13**

**Interest Earned.**

**EXPLANATION:**

The program takes the input from the user the principle, interest rate and the time compound. The program then calculates the savings of the user.

**INPUT:**

#include <iostream>

#include <stdlib.h>

#include <conio.h>

#include <string.h>

#include <cmath>

#include <iomanip>

using namespace std;

int main()

{

a:

double ammount , principle , rate , t , interest ;

cout << "Please enter your balance (PRINCIPLE) : " ;

cin >> principle ;

system ("CLS") ;

cout << "Please enter rate of interest : " ;

cin >> rate ;

system ("CLS") ;

cout << "Please enter the number of times the interest is compounded : " ;

cin >> t ;

system ("CLS") ;

ammount = principle \* pow ( (1 + (rate / ( t \* 100 ) ) ) , t ) ;

interest = ammount \* rate / 100 ;

cout << "Interest rate : " << rate << " % " << endl << endl ;

cout << "Time compounded : " << t << endl << endl ;

cout << "Principle : " << setw ( 5 ) << principle << " Rs "<< endl << endl ;

cout << "Interest ammount : " << setprecision ( 3 ) << setw ( 3 ) << interest << " Rs " << endl << endl ;

cout << "Ammount in savings : " << setprecision ( 5 ) << setw ( 5 ) << ammount << " Rs " << endl << endl ;

getch() ;

system ("CLS") ;

goto a ;

}

**OUTPUT:**







