**TASK-02**

**EXPLANATION:**

Write a program that lets the user to enter the total rainfall for each of 12 months into an array of doubles. The program should calculate and display the total rainfall for the year, the average monthly rainfall, and the month with the highest and lowest amounts.

**Input validation:**

Do not accept negative numbers for monthly rainfall figures

**INPUT:**

#include <iostream>

#include <string>

#include "abdullah"

using namespace std ;

int main ()

{

bool check = true ;

while ( check )

{

double array[12] ;

double total\_rainfall = 0.0 ;

double minimum ;

double maximum ;

string month [2] ;

string months[] = { "January" , "February" , "March" , "April" , "May" , "June" , "July" , "August" , "September" , "October" , "November" , "December" } ;

for ( int i = 0 ; i < 12 ; i++ )

{

cout << "Please enter rainfall in " << months [i] << " : " ;

while ( ! ( cin >> array [i] ) || array[i] < 0 )

{

cin\_clear () ;

cout << "Please enter rainfall in " << months [i] << " : " ;

}

static int min = array [0] ;

static int max = array [0] ;

static string max\_month = months [0] ;

static string min\_month = months [0] ;

if ( min > array[i] )

{

min = array[i] ;

min\_month = months [i] ;

}

month [0] = min\_month ;

minimum = min ;

if ( max < array[i] )

{

max = array[i] ;

max\_month = months [i] ;

}

month [1] = max\_month ;

maximum = max ;

total\_rainfall += array[i] ;

}

system("cls") ;

cout << "The rainfall is : " << endl ;

for ( int i = 0 ; i < 12 ; i++ )

{

cout << "The rainfall in " << months [i] << " is : " << array[i] << " mm." << endl ;

}

cout << endl ;

system("pause") ;

system ("cls") ;

cout << "The total rainfall is : " << total\_rainfall << " mm." << endl << endl ;

Sleep (300) ;

cout << "The average rainfall is : " << total\_rainfall / 12 << " mm." << endl << endl ;

Sleep (300) ;

cout << "The minimum rainfall is : " << minimum << " mm in the month " << month [0] << "." << endl << endl ;

Sleep (300) ;

cout << "The maximum rainfall is : " << maximum << " mm in the month " << month [1] << "." << endl << endl ;

Sleep (300) ;

check = continuationLoop () ;

}

}

**OUTPUT:**







