// 25 programs.cpp : Defines the entry point for the console application.

//

#include "stdafx.h"

#include "iostream"

#include "math.h"

using namespace std;

int main()

{

int ProgramSelector = 1;

for (; ProgramSelector != 0;)

{

cout << " List of programs" << endl << endl;

cout << " ENTER '0' TO CLOSE WHOLE PROGRAM" << endl;

cout << " Or enter the number to run that program" << endl;

cout << "1)Tool tax permmition 2)N1 N2 greater value " << endl;

cout << "3)Rigth triangle hyp and area calcu 4)Employ Salary " << endl;

cout << "5)Binary to dacimal 6)Factorial and square to it less number" << endl;

cout << "7)Perfect deficit or abundant number 8)Palindrome number or not" << endl;

cout << "9)Power of number without built in fn 10)nCr factor" << endl;

cout << "11)How many digits in a number 12)Dacimal to roman" << endl;

cout << "13)Subtraction without minus oprator 14)Fibonacci series" << endl;

cout << "15)ATM transection 16)Car speed kmph to mph" << endl;

cout << "17)High and low temprature 18)Convert rupees into notes and coins" << endl;

cout << "19)Factorial Prime and Even or Odd 20)Dacimal to Binary" << endl;

cout << "21)Convert digits of number in word 22)Addition without + oprator" << endl;

cout << "23)Enter date output the day" << endl;

cout << endl;

cout << "Enter any number to run that program." << endl;

cout << "Or enter '0' to close whole program." << endl;

cout << " Enter here = ";

cin >> ProgramSelector;

cout << endl;

for (; ProgramSelector < 0 || ProgramSelector > 23;)

{

cout << "ERROR. Enter 0 to 26. = ";

cin >> ProgramSelector;

}

cout << endl;

if (ProgramSelector == 1) //Main Program Selector

{

char army, licience, idCard, nationality, a; //tool plaza permission

cout << "Do you belong to army?(Y/N)";

cin >> army;

switch (army)

{

case 'y':

case 'Y':

{

cout << "Do you have licence?(Y/N)";

cin >> licience;

switch (licience)

{

case 'y':

case 'Y':

{

cout << "Welcom...!!!You can pass througt the tool plaza.";

a = 0;

break;

}

case 'n':

case 'N':

{

a = 1;

break;

}

default:

{

cout << "You enter an invalid key.";

a = 0;

break;

}

}

break;

}

case 'n':

case 'N':

{

a = 1;

break;

}

default:

{

cout << "You enter an invalid key.";

a = 0;

break;

}

}

switch (a)

{

case 1:

{

cout << "Do you have PAKISTANI nationality?(Y/N)";

cin >> nationality;

switch (nationality)

{

case 'y':

case 'Y':

{

a = 1;

break;

}

case 'n':

case 'N':

{

cout << "Sorry...!!!You cannot pass through the tool plaza.";

a = 0;

break;

}

default:

{

cout << "You enter an invalid key.";

a = 0;

break;

}

}

}

break;

}

switch (a)

{

case 1:

{

cout << "Do you have offical id card?(Y/N)";

cin >> idCard;

switch (idCard)

{

case 'y':

case 'Y':

{

cout << "Welcom...!!!You can pass througt the tool plaza.";

break;

}

case 'n':

case 'N':

{

cout << "Sorry...!!!You cannot pass through the tool plaza.";

break;

}

default:

{

cout << "You enter an invalid key.";

break;

}

}

}

}

}

else if (ProgramSelector == 2) //Main Program Selector

{

int n1, n2, modulas, greater, smaller; //N1 N2 greater value

cout << "Enter the first number. = ";

cin >> n1;

cout << "Enter the second number. = ";

cin >> n2;

if (n1 > n2)

{

smaller = n2;

greater = n1;

}

else if (n1 < n2)

{

smaller = n1;

greater = n2;

}

cout << endl << endl;

if (n1 == n2)

{

cout << "Both the numbers are equal. So both can divide each other.";

}

else if (smaller == 0)

{

cout << "Cannot be duivide by zero.";

cout << "The greater number is " << greater << "." << endl;

}

else

{

modulas = greater % smaller;

cout << "The greater number is " << greater << "." << endl;

cout << endl;

if (modulas == 0)

{

cout << "Yes the greater number " << greater << " is multiple of" << endl;

cout << "(or can be full divided) on smaller number." << smaller;

}

else if (modulas != 0)

{

cout << "No the greater number " << greater << " is not multiple of" << endl;

cout << "(or cannot be full divide) on smaller number." << smaller;

}

}

cout << endl;

if (n1 > 0)

{

cout << "First number is greater than zero." << endl;

}

else

{

cout << "First number is not greater than zero." << endl;

}

if (n2 > 0)

{

cout << "Second number is greater than zero." << endl;

}

else

{

cout << "Second number is not greater than zero." << endl;

}

}

else if (ProgramSelector == 3) //Main Program Selector

{

int a, b; //right angle triangle calculation

float area, hypotenuse;

cout << "Enter the length of base(meters). = ";

cin >> a;

cout << "Enter the length of perpendicular(meters). = ";

cin >> b;

for (; a < 0 || b < 0;)

{

cout << "Length cannot be -ve." << endl;

cout << "Enter the length of base(meters). = ";

cin >> a;

cout << "Enter the length of perpendicular(meters). = ";

cin >> b;

}

cout << endl;

hypotenuse = a\*a + b\*b;

cout << "The hypotenuse of the triangle is = " << sqrt(hypotenuse) << endl << endl; // hypotenuse;

cout << "The area of triangle is = " << (a \* b) / 2;

}

else if (ProgramSelector == 4) //Main Program Selector

{

int salary, HouseRent, DailyAllowance; //salary of employ

cout << "Enter the basic salary. = ";

cin >> salary;

for (; salary < 0;)

{

cout << "ERROR. Salary cannot be -ve." << endl;

cout << "Enter the basic salary. = ";

cin >> salary;

}

if (salary < 1500)

{

HouseRent = salary \* 0.1;

DailyAllowance = salary \* 0.9;

salary = salary + HouseRent + DailyAllowance;

cout << "The total salary of employ according to " << endl;

cout << "10% HOUSE RENT and 90% DAILY ALLOWANCE is = " << salary;

}

else

{

HouseRent = salary \* 0.2;

DailyAllowance = salary \* 0.95;

salary = salary + HouseRent + DailyAllowance;

cout << "The total salary of employ according to " << endl;

cout << "20% HOUSE RENT and 95% DAILY ALLOWANCE is = " << salary;

}

}

else if (ProgramSelector == 5) //Main Program Selector

{

int binary, dacimal, answer = 0; //binary to dacimal

cout << "Enter a binary number.(maximum 9 digits) = ";

cin >> binary;

cout << "That number in dacimal is = ";

for (int power = 0; power < 10; power++)

{

dacimal = binary % 10;

binary = binary / 10;

answer = answer + dacimal \* pow(2, power);

}

cout << answer;

}

else if (ProgramSelector == 6) //Main Program Selector

{

int input, input2, plus; //factorial and its lesser numbers sum

long b = 1;

cout << "Enter the number less than 17. = ";

cin >> input;

for (; input < 0;)

{

cout << "ERROR. Enter a positive number." << endl;

cout << "Enter the number less than 17. = ";

cin >> input;

}

input2 = input;

plus = input2 \* input2 \* -1;

for (; input > 0; input--)

{

b = input \* b;

plus = plus + input \* input;

}

cout << endl << "The foctorial of " << input2 << " number is = " << b << endl;

cout << "The sum of the square of all " << endl;

cout << "integers less than " << input2 << " is = " << plus;

}

else if (ProgramSelector == 7) //Main Program Selector

{

int b = 0, a = 1;

long input;

cout << "Enter a number.";

cin >> input;

for (; a <= input; a++)

{

if (input % a == 0)

{

b = a + b;

}

}

if (input == b / 2)

{

cout << "Yes the number is PERFECT.";

}

else if (input < (b - a))

{

cout << "The number is ABUNDANT.";

}

else if (input >(b - a))

{

cout << "The number is DEFICIENT.";

}

}

else if (ProgramSelector == 8) //Main Program Selector

{

int input, reverse, a, a1, a2, a3, a4, a5; // given number is palindrome or not?

cout << "Enter a number of five digits. = ";

cin >> input;

for (; input < 10000 || input > 99999;)

{

cout << "Enter a number of five digits. = ";

cin >> input;

}

a5 = input % 10;

a = input / 10;

a4 = a % 10;

a = a / 10;

a3 = a % 10;

a = a / 10;

a2 = a % 10;

a1 = a / 10;

cout << endl;

reverse = a5 \* 10000 + a4 \* 1000 + a3 \* 100 + a2 \* 10 + a1;

cout << endl;

if (input == reverse)

{

cout << "The number is PALINDROME.";

}

else

{

cout << "NO THE NUMBER IS NOT PALINDROME.";

}

}

else if (ProgramSelector == 9) //Main Program Selector

{

int input, exponent, answer, divider = 0; //power with out built in fn

cout << "Enter the base. = ";

cin >> input;

cout << "Enter the exponent = ";

cin >> exponent;

if (exponent < 0)

{

exponent = -1 \* exponent;

divider = 1;

}

answer = input;

for (int stoper = 1; stoper < exponent; stoper++)

{

answer = answer \* input;

}

cout << "Tne answer is ";

if (divider == 1)

{

cout << "1 / " << answer;

}

else

{

cout << answer;

}

}

else if (ProgramSelector == 10) //Main Program Selector

{

int a = 0, n = 0, r = 1, nMinusr; //nCr factor

double long nFactorial = 1, rFactorial = 1, nMinusrFactorial = 1;

for (; r > n || r <= 0 || n <= 0 || n > 170;)

{

if (a != 0)

{

cout << "ERROR. r cannot be greater" << endl;

cout << "than n nor either can be -ve. " << endl;

cout << "And enter n less than 171." << endl;

}

cout << "Enter the number(n). = ";

cin >> n;

cout << "Enter the (r). = ";

cin >> r;

a = 1;

}

nMinusr = n - r;

for (; nMinusr > 0; nMinusr--)

{

nMinusrFactorial = nMinusrFactorial \* nMinusr;

}

for (; n > 0; n--)

{

nFactorial = nFactorial \* n;

}

for (; r > 0; r--)

{

rFactorial = rFactorial \* r;

}

cout << "The nCr factor is = " << (nFactorial / rFactorial) / nMinusrFactorial;

}

else if (ProgramSelector == 11) //Main Program Selector

{

int input, a = 1;

cout << "Enter a number = ";

cin >> input;

if (input == 0)

{

cout << "The digits is 1";

}

else

{

for (; input != 0; a++)

{

input = input / 10;

}

cout << "The digits is " << a - 1;

}

}

else if (ProgramSelector == 12) //Main Program Selector

{

int input, a1, a2, a3, a4, a5; //dacimal to roman

cout << "Enter a number(maximum 50000). = ";

cin >> input;

for (; input > 50000 || input <= 0;)

{

cout << "ERROR." << endl;

cout << "Please enter a number of maximum nine digits= ";

cin >> input;

}

a5 = input % 10;

input = input / 10;

a4 = input % 10;

input = input / 10;

a3 = input % 10;

input = input / 10;

a2 = input % 10;

a1 = input / 10;

cout << "That number in roman is = ";

if (a1 == 1)

{

cout << "X";

}

else if (a1 == 2)

{

cout << "XX";

}

else if (a1 == 3)

{

cout << "XXX";

}

else if (a1 == 4)

{

cout << "XL";

}

else if (a1 == 5)

{

cout << "L";

}

if (a2 == 1)

{

cout << "M";

}

else if (a2 == 2)

{

cout << "MM";

}

else if (a2 == 3)

{

cout << "MMM";

}

else if (a2 == 4)

{

cout << "MV";

}

else if (a2 == 5)

{

cout << "V";

}

else if (a2 == 6)

{

cout << "VM";

}

else if (a2 == 7)

{

cout << "VMM";

}

else if (a2 == 8)

{

cout << "VMMM";

}

else if (a2 == 9)

{

cout << "MX";

}

if (a3 == 1)

{

cout << "C";

}

else if (a3 == 2)

{

cout << "CC";

}

else if (a3 == 3)

{

cout << "CCC";

}

else if (a3 == 4)

{

cout << "CD";

}

else if (a3 == 5)

{

cout << "D";

}

else if (a3 == 6)

{

cout << "DC";

}

else if (a3 == 7)

{

cout << "DCC";

}

else if (a3 == 8)

{

cout << "DCCC";

}

else if (a3 == 9)

{

cout << "CM";

}

if (a4 == 1)

{

cout << "x";

}

else if (a4 == 2)

{

cout << "xx";

}

else if (a4 == 3)

{

cout << "xxx";

}

else if (a4 == 4)

{

cout << "xL";

}

else if (a4 == 5)

{

cout << "L";

}

else if (a4 == 6)

{

cout << "Lx";

}

else if (a4 == 7)

{

cout << "Lxx";

}

else if (a4 == 8)

{

cout << "Lxxx";

}

else if (a4 == 9)

{

cout << "xC";

}

if (a5 == 1)

{

cout << "i";

}

else if (a5 == 2)

{

cout << "ii";

}

else if (a5 == 3)

{

cout << "iii";

}

else if (a5 == 4)

{

cout << "iv";

}

else if (a5 == 5)

{

cout << "v";

}

else if (a5 == 6)

{

cout << "vi";

}

else if (a5 == 7)

{

cout << "vii";

}

else if (a5 == 8)

{

cout << "viii";

}

else if (a5 == 9)

{

cout << "ix";

}

}

else if (ProgramSelector == 13) //Main Program Selector

{

int a, b, less, greater, difference = 0; //subtraction eithout - oprator

cout << "Enter the first number. = ";

cin >> a;

cout << "Enter the second number. = ";

cin >> b;

if (a > b)

{

less = b;

greater = a;

}

else

{

less = a;

greater = b;

}

cout << endl << endl;

for (; less < greater; less++)

{

difference = difference + 1;

}

cout << "According to this proceder." << endl;

cout << endl;

cout << " if (a > b) where a = First Number" << endl;

cout << " { b = Second Number" << endl;

cout << " less = b" << endl;

cout << " greater = a" << endl;

cout << " }" << endl;

cout << " else" << endl;

cout << " {" << endl;

cout << " less = a" << endl;

cout << " greater = b" << endl;

cout << " }" << endl;

cout << endl;

cout << " for (; less < greater; less++)" << endl;

cout << " {" << endl;

cout << " difference = difference + 1;" << endl;

cout << " }" << endl << endl;

cout << "The difference of " << a << " and " << b << " is " << difference << ".";

}

else if (ProgramSelector == 14) //Main Program Selector

{

int a = 0, b = 1, range = 0, answer = 0, AnswerPrevious, dicider = 0; // fibonacci series

cout << "Enter the maximum point. = ";

cin >> range;

for (; range < 0 || range > 99999;)

{

cout << "The a number from 1 to 99999. = ";

cin >> range;

}

cout << "The series is " << endl << a << endl;

for (; answer < range;)

{

if (dicider == 0)

cout << b << ", ";

if (dicider == 1)

{

AnswerPrevious = answer;

}

answer = answer + b;

if (answer <= range)

{

cout << answer << ", ";

}

if (dicider == 1)

{

b = AnswerPrevious;

}

dicider = 1;

}

}

else if (ProgramSelector == 15) //Main Program Selector

{

int password = 123, password2 = 123, balance = 500000, withdraw, OptionSelector = 1;

cout << "Enter your ATM card." << endl; //ATM transection

cout << "Enter the password.(Hint:123) = ";

cin >> password;

for (; password != 123; )

{

cout << "Incorrect password.";

cin >> password;

}

for (; OptionSelector != 0;)

{

cout << "To close program enter 0" << endl;

cout << "To check balance enter 1" << endl;

cout << "For withdraw enter 2" << endl;

cout << "To change password 3" << endl;

cout << "For mini statement 4" << endl;

cout << "Enter here = ";

cin >> OptionSelector;

for (; OptionSelector < 0 || OptionSelector > 4; )

{

cout << "ERROR." << endl;

cout << "Enter 0 to 4." << endl;

cout << "Enter here = ";

cin >> OptionSelector;

}

if (OptionSelector == 1)

{

cout << "The balance is " << balance << endl;

cout << endl << endl;

}

else if (OptionSelector == 2)

{

cout << "Enter an amount to withdraw. = ";

cin >> withdraw;

for (; withdraw > balance;)

{

cout << "Enter an amount less than your balance. = ";

cin >> withdraw;

}

balance = balance - withdraw;

cout << "Your remaining balance is = " << balance << endl;

cout << endl << endl;

}

else if (OptionSelector == 3)

{

cout << "Enter a new password. = ";

cin >> password;

cout << "Conferm password = ";

cin >> password2;

for (; password2 != password;)

{

cout << "Not match" << endl;

cout << "Enter a new password. = ";

cin >> password;

cout << "Conferm password = ";

cin >> password2;

}

cout << endl << endl;

}

else if (OptionSelector == 4)

{

cout << "Account no 125426546-075" << endl;

cout << "Card no 3475876786-766" << endl;

cout << "ATM CW 3000" << endl;

cout << "CM TRANSFER CR 41545" << endl;

cout << endl << endl;

}

}

}

else if (ProgramSelector == 16) //Main Program Selector

{

int kmph, mph; //car speed

cout << "Enter the speed(kmph). = ";

cin >> kmph;

cout << endl;

cout << "The speed in mph is = ";

mph = kmph \* 1000;

cout << mph << endl;

if (mph > 150)

{

cout << "The speed is over 150 mph. You should lower the speed.";

}

else if (mph > 100)

{

cout << "The speed is over 100 mph. And the speed is eligible for motor way.";

}

else if (mph > 80)

{

cout << "The speed is over 80 mph.";

}

else if (mph < 80)

{

cout << "The speed is less than 80 mph.";

}

}

else if (ProgramSelector == 17) //Main Program Selector

{

int first, second, third, forth, fifth, sixth, x, y; //high and lower temprature

cout << "Please the first tempature = ";

cin >> first;

cout << "Please the second tempature = ";

cin >> second;

cout << "Please the third tempature = ";

cin >> third;

cout << "Please the forth tempature = ";

cin >> forth;

cout << "Please the fifth tempature = ";

cin >> fifth;

cout << "Please the sixth tempature = ";

cin >> sixth;

cout << endl;

if (first > second)

{

if (second > third)

{

x = third;

}

else if (third > second)

{

x = second;

}

}

else if (second > first)

{

if (first > third)

{

x = third;

}

else if (third > first)

{

x = first;

}

}

if (forth > fifth)

{

if (fifth > sixth)

{

y = sixth;

}

else

{

y = fifth;

}

}

else if (fifth > forth)

{

if (forth > sixth)

{

y = sixth;

}

else if (sixth > forth)

{

y = forth;

}

}

if (x > y)

{

cout << "The lower tempature is = " << y;

}

else

{

cout << "The lower tempature is = " << x;

}

cout << endl << endl;

if (first < second)

{

if (second < third)

{

x = third;

}

else if (third < second)

{

x = second;

}

}

else if (second < first)

{

if (first < third)

{

x = third;

}

else if (third < first)

{

x = first;

}

}

if (forth < fifth)

{

if (fifth > sixth)

{

y = sixth;

}

else

{

y = fifth;

}

}

else if (fifth < forth)

{

if (forth < sixth)

{

y = sixth;

}

else if (sixth < forth)

{

y = forth;

}

}

if (x < y)

{

cout << "The higher tempature is = " << y;

}

else

{

cout << "The higher tempature is = " << x;

}

cout << endl << endl;

}

else if (ProgramSelector == 18) //Main Program Selector

{

long amount;

int hazar, panchso, soo, panchas, biss, dass, panch, doo, ak; //rupees to coins

cout << "Enter the amount(maximum 9 digits). = ";

cin >> amount;

for (; amount < 0 || amount >> 999999999;)

{

cout << "Enter the amount(maximum 9 digits). " << endl;

cout << "And greater than zero =";

cin >> amount;

}

hazar = amount / 1000;

amount = amount % 1000;

panchso = amount / 500;

amount = amount % 500;

soo = amount / 100;

amount = amount % 100;

panchas = amount / 50;

amount = amount % 50;

biss = amount / 20;

amount = amount % 20;

dass = amount / 10;

amount = amount % 10;

panch = amount / 5;

amount = amount % 5;

doo = amount / 2;

amount = amount % 2;

ak = amount;

cout << endl;

cout << "There are " << endl;

cout << "Note(s) of thousand " << hazar << endl;

cout << "Note(s) of five hundard " << panchso << endl;

cout << "Note(s) of hundard " << soo << endl;

cout << "Note(s) of fifty " << panchas << endl;

cout << "Note(s) of twenty " << biss << endl;

cout << "Note(s) of ten " << dass << endl;

cout << "Coin(s) of five " << panch << endl;

cout << "Coin(s) of two " << doo << endl;

cout << "Coin(s) of one " << ak;

}

else if (ProgramSelector == 19) //Main Program Selector

{

int OprationSelector = 1; //this has three more programs

for (; OprationSelector != 0;)

{

cout << " LIST" << endl << endl;

cout << " 1)Factorial 2)Prime Number or not 3)Even or Odd 0)zero to exit" << endl << endl;

cout << " Here = ";

cin >> OprationSelector;

for (; OprationSelector < 0 || OprationSelector > 3;)

{

cout << "Enter 1 to 3." << endl;

cout << " Here = ";

cin >> OprationSelector;

}

if (OprationSelector == 1) //inner opration selector

{

long a, b = 1; //factorial

cout << "Enter the number less than 17. = ";

cin >> a;

for (; a > 0; a--)

{

b = b \* a;

}

cout << "The factorial is = " << b;

}

else if (OprationSelector == 2) //inner opration selector

{

int input, b = 0; //prime number or not

cout << "Enter the number. = ";

cin >> input;

for (int a = 1; a < input; a++)

{

if (input % a == 0)

{

b = b + 1;

}

}

if (b == 1 || b == 0)

{

cout << "The number is prime.";

}

else

{

cout << "the number is not a prime.";

}

}

else if (OprationSelector == 3) //inner opration selector

{

int a, b; //even or odd

cout << "Enter a number. = ";

cin >> a;

b = a % 2;

cout << endl;

if (b == 1)

{

cout << "Your digit is ODD.";

}

else

{

cout << "Your digit is EVEN.";

}

}

}

}

else if (ProgramSelector == 20) //Main Program Selector

{

int input, reverse\_binary = 2, actual\_binary, remainder, decimal; //dacimal tobinary

do{

cout << "Enter a positive integer = ";

cin >> input;

} while (input < 0);

decimal = input;

if (input < 2){ actual\_binary = input; }

else{

for (; input > 1;){

remainder = input % 2;

if (remainder == 0){ reverse\_binary = reverse\_binary \* 10; }

else{ reverse\_binary = (reverse\_binary \* 10) + 1; }

input = input / 2;

}

reverse\_binary = (reverse\_binary \* 10) + 1;

actual\_binary = reverse\_binary % 10;

reverse\_binary = reverse\_binary / 10;

for (; reverse\_binary != 2;){

remainder = reverse\_binary % 10;

reverse\_binary = reverse\_binary / 10;

if (remainder == 0){ actual\_binary = actual\_binary \* 10; }

else{ actual\_binary = (actual\_binary \* 10) + 1; }

}

}

cout << "Decimal value:" << decimal << endl << "Binary Value:" << actual\_binary << endl;

}

else if (ProgramSelector == 21) //Main Program Selector

{

int input, output, number = 0, ZeroStoper = 0; //convert digits of number into word

cout << "Enter the number(maximum nine digits). = ";

cin >> input;

for (; input > 999999999;)

{

cout << "ERROR" << endl;

cout << "Enter the number(maximum nine digits). = ";

cin >> input;

}

if (input < 0)

{

cout << " MINUS";

input = input \* -1;

}

// input = input \* 10 + 2;

for (int a = 1; a < 10; a++)

{

output = input % 10;

input = input / 10;

number = number \* 10 + output;

}

for (int a = 1; a < 10; a++)

{

output = number % 10;

number = number / 10;

if (output != 0)

{

ZeroStoper = 1;

}

if (ZeroStoper == 1)

{

if (output == 0)

{

cout << " ZERO";

}

else if (output == 1)

{

cout << " ONE";

}

else if (output == 2)

{

cout << " TWO";

}

else if (output == 3)

{

cout << " THREE";

}

else if (output == 4)

{

cout << " FOUR";

}

else if (output == 5)

{

cout << " FIVE";

}

else if (output == 6)

{

cout << " SIX";

}

else if (output == 7)

{

cout << " SEVEN";

}

else if (output == 8)

{

cout << " EIGHT";

}

else if (output == 9)

{

cout << " NINE";

}

}

}

}

else if (ProgramSelector == 22) //Main Program Selector

{

int a, b; //addition without +

cout << "Enter the first number. = ";

cin >> a;

cout << "Enter the second number. = ";

cin >> b;

cout << endl;

cout << "According to this formula." << endl;

cout << " -(-a - b)" << endl;

cout << " Where a = First Number" << endl;

cout << " And b = Second Number" << endl << endl;

cout << "The sum of " << a << " and " << b << " is = ";

cout << -(-a - b);

}

else if (ProgramSelector == 23) //Main Program Selector

{

long days = 0, year; //enter date out day

int date, month, DayDecieder = 8, leapDecieder;

cout << "Enter the date. = ";

cin >> date;

cout << "Enter the month. = ";

cin >> month;

cout << "Enter the year. = ";

cin >> year;

if (month == 1)

{

days = 0;

}

else if (month == 2)

{

days = 31;

}

else if (month == 3)

{

days = 59;

}

else if (month == 4)

{

days = 90;

}

else if (month == 5)

{

days = 120;

}

else if (month == 6)

{

days = 151;

}

else if (month == 7)

{

days = 181;

}

else if (month == 8)

{

days = 212;

}

else if (month == 9)

{

days = 243;

}

else if (month == 10)

{

days = 273;

}

else if (month == 11)

{

days = 304;

}

else if (month == 12)

{

days = 334;

}

days = days + date;

if (0 == year % 4 && month != 1 && month != 2)

{

days = days + 1;

}

year = year - 1990;

days = year \* 365 + days;

leapDecieder = year / 4;

days = leapDecieder + days;

DayDecieder = days % 7;

if (days <= 7)

{

cout << "The day is ";

cout << DayDecieder << endl;

if (DayDecieder == 0)

{

cout << "SUNDAY.";

}

else if (DayDecieder == 1)

{

cout << "MONDAY.";

}

else if (DayDecieder == 2)

{

cout << "TUESDAY.";

}

else if (DayDecieder == 3)

{

cout << "WEDNESDAY.";

}

else if (DayDecieder == 4)

{

cout << "THUSDAY.";

}

else if (DayDecieder == 5)

{

cout << "FRIDAY.";

}

else if (DayDecieder == 6)

{

cout << "SATURDAY.";

}

}

else

{

if (DayDecieder == 6)

{

cout << "SUNDAY.";

}

else if (DayDecieder == 0)

{

cout << "MONDAY.";

}

else if (DayDecieder == 1)

{

cout << "TUESDAY.";

}

else if (DayDecieder == 2)

{

cout << "WEDNESDAY.";

}

else if (DayDecieder == 3)

{

cout << "THUSDAY.";

}

else if (DayDecieder == 4)

{

cout << "FRIDAY.";

}

else if (DayDecieder == 5)

{

cout << "SATURDAY.";

}

}

}

cout << endl << endl;

}

return 0;

}