**IT 230 Final Project Part I**

**Chelaine Echols**

A screenshot of a computer

Description automatically generatedScreenshots to verify program contains all requirements:

Program main menu.

A screenshot of a computer

Description automatically generated

Program main menu with first course selection and verification response.

A screenshot of a computer

Description automatically generatedInvalid course choice input with correct response prompting a different choice.

I changed the code to say, "You are not currently registered for any courses" instead of "You are currently registered for " with a blank.

A screen shot of a computer

Description automatically generated

Input attempt to register for more than 9 credit hours (or 3 courses) with correct program response.

A screenshot of a computer

Description automatically generatedA screenshot of a computer program

Description automatically generatedAttempt to register for the same course more than once with correct program response.

Program terminates only when user prompts with "N" input.

Correct program response.

**Source Code Text**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleRegisterStudent

{

class Program

{

static void Main(string[] args)

{

(new Program()).run();

}

void run()

{

int choice;

int firstChoice = 0, secondChoice = 0, thirdChoice = 0;

int totalCredit = 0;

string yesOrNo = "";

System.Console.WriteLine("Echols, Chelaine\n");

do

{

WritePrompt();

choice = Convert.ToInt32(Console.ReadLine());

switch (ValidateChoice(choice, firstChoice, secondChoice, thirdChoice, totalCredit))

{

case -1:

Console.WriteLine("\nYou entered: {0} \nThis is not a valid option. Please try again.\n", choice);

break;

case -2:

Console.WriteLine("\nYou have already registered for course {0}.\n", ChoiceToCourse(choice));

break;

case -3:

Console.WriteLine("\nYou can not register for more than 9 credit hours.\n");

break;

case -4:

Console.WriteLine("\nRegistration confirmed for course {0}.\n", ChoiceToCourse(choice));

totalCredit += 3;

if (firstChoice == 0)

firstChoice = choice;

else if (secondChoice == 0)

secondChoice = choice;

else if (thirdChoice == 0)

thirdChoice = choice;

break;

}

WriteCurrentRegistration(firstChoice, secondChoice, thirdChoice);

Console.Write("\nDo you want to try again? (Y|N)? : ");

yesOrNo = (Console.ReadLine()).ToUpper();

} while (yesOrNo == "Y");

Console.WriteLine("\nThank you for registering with us");

Console.WriteLine("Press any key to exit.");

Console.ReadLine();

}

void WritePrompt()

{

Console.WriteLine("Please select a course for which you want to register by typing the number inside []");

Console.WriteLine("[1]IT 145\n[2]IT 200\n[3]IT 201\n[4]IT 270\n[5]IT 315\n[6]IT 328\n[7]IT 330");

Console.Write("Enter your choice : ");

}

int ValidateChoice(int choice, int firstChoice, int secondChoice, int thirdChoice, int totalCredit)

{

if (choice < 1 || choice > 7)

return -1;

else if (choice == firstChoice || choice == secondChoice || choice == thirdChoice)

return -2;

else if (totalCredit >= 9)

return -3;

return -4;

}

void WriteCurrentRegistration(int firstChoice, int secondChoice, int thirdChoice)

{

if (firstChoice == 0)

Console.WriteLine("You are not currently registered for any courses");

else if (secondChoice == 0)

Console.WriteLine("You are currently registered for: {0}", ChoiceToCourse(firstChoice));

else if (thirdChoice == 0)

Console.WriteLine("You are currently registered for: {0}, {1}", ChoiceToCourse(firstChoice), ChoiceToCourse(secondChoice));

else

Console.WriteLine("You are currently registered for: {0}, {1}, {2}", ChoiceToCourse(firstChoice), ChoiceToCourse(secondChoice), ChoiceToCourse(thirdChoice));

}

string ChoiceToCourse(int choice)

{

string course = "";

switch (choice)

{

case 1:

course = "IT 145";

break;

case 2:

course = "IT 200";

break;

case 3:

course = "IT 201";

break;

case 4:

course = "IT 270";

break;

case 5:

course = "IT 315";

break;

case 6:

course = "IT 328";

break;

case 7:

course = "IT 330";

break;

default:

break;

}

return course;

}

}

}