**5-2 Final Project Part I**

**ConsoleRegisterStudent**

**Dennis Earl - 2/16/2025 – IT 230 - SNHU**

**Part I: Output Screen Shots**

**A screenshot of a computer

AI-generated content may be incorrect.**

**Screen Shot 1:** Program launched with the first line updated to show my last name.

A screenshot of a computer

AI-generated content may be incorrect.

**Screen Shot 2:** First course registered. Courses that are currently registered displayed.

A computer screen with white text

AI-generated content may be incorrect.

**Screen Shot 3:** Program looped back to menu select after entering “Y”. Attempted to register for the same course again and was denied. The course list does not list IT 145 twice.

A computer screen with white text

AI-generated content may be incorrect.

**Screen Shot 4:** Attempted to register for course “8”. This is not a valid course, error message displayed.

A screenshot of a computer

AI-generated content may be incorrect.

**Screen Shot 5:** Course 7 registered. Both IT 145 and IT 330 are now displayed as registered courses.

A computer screen shot of a black screen

AI-generated content may be incorrect.

**Screen Shot 6:** Attempted to register for course 7 again. The program is able to detect a duplicate in any slot.

A screenshot of a computer

AI-generated content may be incorrect.

**Screen Shot 7:** Registered for course 6. All three courses are properly displayed as registered.

A screenshot of a computer

AI-generated content may be incorrect.

**Screen Shot 8:** Attempted to register for a fourth class. Since each class is 3 credit hours, 3 classes are the max you can register for.

A black background with white text

AI-generated content may be incorrect.

**Screen Shot 9:** User selected No when asked to try again. Program terminates.

**Part II: Corrected Lines**

**Line 71**: if (choice < 1 || choice > 7) // Updated to max out at 7

**Line 73:** else if (choice == firstChoice || choice == secondChoice || choice == thirdChoice) // Removed &&. Using && would only trigger the duplicate check if all three choices were the same course. || checks for any.

**Line 75:** else if (totalCredit + 3 > 9) // Updated to check if the current total PLUS 3 would exceed the limit. Otherwise you would get up to 12 credits.

**Line 77:** return 0; // This was set to -4, there is no case -4. Returning 0 properly displays the registration confirmation.

**Part III: Source Code**

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("Earl's Copy");

do

{

WritePrompt();

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

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

{

case -1:

Console.WriteLine("Your entered selection {0} is not a recognized course.", choice);

break;

case -2:

Console.WriteLine("You have already registerd for this {0} course.", ChoiceToCourse(choice));

break;

case -3:

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

break;

case 0:

Console.WriteLine("Registration Confirmed for course {0}.", 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("Thank you for registering with us");

}

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) // Updated to max out at 7

return -1;

else if (choice == firstChoice || choice == secondChoice || choice == thirdChoice) // Removed &&. Using && would only trigger the duplicate check if all three choices were the same course. || checks for any.

return -2;

else if (totalCredit + 3 > 9) // Updated to check if the current total PLUS 3 would exceed the limit. Otherwise you would get up to 12 credits.

return -3;

return 0; // This was set to -4, there is no case -4. Returning 0 properly displays the registration confirmation.

}

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

{

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;

}

}

}