A screen shot of a computer

Description automatically generated

**Main Menu and Initial Course Selection** 🡪

The screenshot shows the main menu of the course registration console program. At the top, it displays "Couch's Copy" to indicate the user's version of the program. The program prompts the user to select a course for registration by typing the corresponding number inside the brackets. The list of available courses is displayed, including options such as "[1] IT 145," "[2] IT 200," "[3] IT 201," "[4] IT 270," "[5] IT 315," "[6] IT 328," and "[7] IT 330." The user enters "5," selecting the course "IT 315."

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**Successful Registration**

This screenshot shows the program confirming registration for the selected course "IT 315." The message "Registration Confirmed for course IT 315" is displayed, indicating the successful registration. Additionally, the program outputs the current list of registered courses with the message "You are currently registered for IT 315," confirming the user's current enrollment status.

**A screen shot of a computer

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**Registering Multiple Courses**

The screenshot captures the program's response after registering two courses. The user selects a second course, and the program confirms the registration by displaying "Registration Confirmed for course IT 145." The current list of registered courses is updated and displayed, showing both courses, "You are currently registered for IT 201, IT 145," confirming that the user has successfully registered for two courses.

A black screen with white text

Description automatically generated

**Attempt to Register Same Course Twice**

This screenshot illustrates the program's handling of an attempt to register for the same course twice. When the user tries to register for "IT 145" again, the program displays an error message: "You have already registered for this IT 145 course." This message prevents the user from registering for the same course more than once, ensuring the integrity of the registration process.

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**Exceeding Maximum Credit Hours**

This screenshot demonstrates the program's response when the user attempts to register for more than nine credit hours. After registering for three courses, the user tries to register for a fourth course. The program displays an error message: "You can not register for more than 9 credit hours." This message enforces the rule that a student cannot register for more than three courses (nine credit hours).

A computer screen shot of a black screen

Description automatically generated

**Invalid Course Selection**

This screenshot shows the program's response to an invalid course selection. When the user enters a number outside the valid range, such as "8," the program displays an error message: "Your entered selection 8 is not a recognized course." This message ensures that only valid course selections are accepted, guiding the user to make appropriate choices.

A screenshot of a computer

Description automatically generated

**Exit Program**

This screenshot captures the moment when the user decides to exit the program. After being asked if they want to try again, the user enters "N." The program responds by displaying a thank-you message: "Thank you for registering with us." This message indicates the end of the registration process and confirms the program's successful termination based on the user's input.

Source Code 🡪

using System;

using System.Threading; // Add this namespace for using Thread.Sleep

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 = "";

Console.WriteLine("Couch'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 registered 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");

Thread.Sleep(2000); // Add a 2-second delay before the program exits

}

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 + 3 > 9)

return -3;

return 0;

}

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

{

if (firstChoice != 0)

{

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

if (secondChoice != 0)

{

Console.Write(", {0}", ChoiceToCourse(secondChoice));

if (thirdChoice != 0)

{

Console.Write(", {0}", ChoiceToCourse(thirdChoice));

}

}

Console.WriteLine();

}

else

{

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

}

}

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;

}

}

}