# IT 230 Coding Activity Submission Template

Submit your work on the coding activities for Modules One, Two, Three, Four, and Six in this document. In addition to this document, you should submit a ZIP file containing all your Visual Studio project files and source code that can be run in Visual Studio on a different computer.

For each coding activity, complete the following steps:

* Download and rename this document to meet the file naming conventions requested in the assignment instructions.
* Fill in the required information below by replacing the bracketed text with the relevant information.
* Submit this document and your ZIP file for grading and feedback. Your ZIP file should follow the same naming conventions.

Document your work in the coding activity by completing each of the following items:

1. Provide a screenshot of the output that resulted from running your program successfully in Visual Studio. See the coding assignment instructions for an example of what should be included in the screenshot. Your screenshot must include the following elements:
   1. Your last name as the first printed text on the screen
   2. Verification that the program is fully functioning and data results are accurate for the given problem

A computer screen with white text

Description automatically generated

A screenshot of a computer

Description automatically generated

1. Copy and paste the source code text you wrote for this assignment from the \*.cs file into the space below. Only providing the \*.cs files or a screenshot does not meet the requirements for this part of the assignment. Code should be logically organized. It should also follow proper syntax and conventions noted in the Coding Activity Guidelines and Rubric.

using System;

namespace ConsoleRegisterStudent

{

internal class Program

{

private static void Main(string[] args)

{

new Program().Run();

}

private void Run()

{

int firstChoice = 0;

int secondChoice = 0;

int thirdChoice = 0;

int totalCredit = 0;

string yesOrNo = "";

Console.WriteLine("Helo, Shyanne's Copy");

do

{

WritePrompt();

int 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 cannot 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");

}

private 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 : ");

}

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

{

if (choice < 1 || choice > 7)

{

return -1;

}

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

{

return -2;

}

if (totalCredit + 3 > 9)

{

return -3;

}

return 0;

}

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

{

if (firstChoice == 0)

{

Console.WriteLine("You are not 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));

}

}

private 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;

}

return course;

}

}

}

1. Show that you understand the task by explaining the design of your program in the space below. Include the process and steps you took to write your code. Explain how you arrived at the solution to the problem and completed the activity.

First, I started with downloading the zip file, and unzipping the file. Then I opened the file in visual studio and ran the code to look for errors. After looking for errors I started working on making changes to the code.

* Changed all run to Run.
* Added the credit amount to course selection - int firstChoice = 3, secondChoice = 3, thirdChoice = 3;
* Added the total amount of credit - int totalCredit + 3 > 9
* Changed teachers copy to Helo Shyanne
* Corrected the range check for valid choices to choice > 7
* Fixed the logic to check for duplicate course registration
* Adjusted the credit check to account for the new course registration credit
* Added a condition in WriteCurrentRegistration to handle when no courses are registered

1. Reflect on your learning experience and what you learned from completing the activity.

When conducting the changes in this assignment they came to me much easier due to the previous modules work. When completing this assignment, I was able to learn how to edit an existing switch code to ensure I produce the correct results. I also learned that if you don’t add a + sign when trying to calculate the number of something it will not produce the correct results. Finally, I learned that } being in the incorrect spot will cause a error to your code. I erased one on accident and learned the error that can cause.