Exercises

1. Selection - If

Ask the user to enter a percentage grade and return the number of points. Use the leaving cert points system and assume only higher paper (for now!)

|  |  |
| --- | --- |
|  |  |

1. Selection – Switch

Use a switch statement which accepts a grade such as H1 and returns the points.

1. Nested If

Amend exercise 1 above to ask for higher or ordinary level and calculate the points accordingly.

1. For Loop

Add a for loop which will repeat 7 times and ask for results in each of 7 subjects. Keep a tally of the total number of points and display this at the end. Normally Leaving Cert results are comprised of 6 subjects. Amend so that the lowest number of points are discarded.

1. While Loop

Use a while loop to continue to read results until a sentinel value of -1 is entered. You do not need to cater for discarding subjects and lowest here.

1. Files

Read a text file which contains 7 grades. Calculate the total points and append this total to the original file. Don’t worry about Higher or Ordinary level here but use the points for Higher.

1. Foreach Loop

If you have not already done so make use of a foreach loop in the previous exercise

1. Array

Create two arrays which hold the grade boundaries and higher level point. Amend the program so that it makes use of the arrays in calculating points. This program should read from a file but should output total points to the screen and no amend the file.

1. Methods

Create a method which accepts an array of grades (assume higher level only) and calculates the points.

1. Write a program which takes user input and asks for Name, Student Number, Subjects, Level and Grade and displays a tabulated report to screen and writes this to file with all the all the inputs and the points total. Assume 7 subjects.