# Pseudocode Problems Week 2

#### Instructions

- This week there are 4 problems for you to solve and write Pseudocode for.
- All 4 solutions should be on a single Notepad document and saved using your student number and name (e.g. NoelCarey\_B000123456.txt)
- When writing your solutions, keep in mind the 5 standard guide points.
  - 1. Program explanation at the start.
  - 2. One statement per line.
  - 3. Use of white space and indentation.
  - 4. Capitalisng of Key Words and good structure
  - 5. Correct logic and flow.
- Upload your single text file to the appropriate Moodle section.
- REMEMBER: your task here is to write Pseudocode and get the logic and structure of the program correct. You don't need to know all the nuts and bolts of a programming language.

```
Don't forget your program Structure Guide: //Declare variables //Get input from user //Processing //Output or Results
```

# Question 1

Write a Pseudocode program that prints the **quotient** and **remainder** on dividing the constant **X** by the constant **Y**. X should be initialised to **5** and Y should be initialised to **3**. Your program should use two variables called **quotient** and **remainder** to store results and you should use a single *PRINT()* statement to print the result in the format:

#### Question 2

Write a Pseudocode program to calculate an employee's *gross weekly pay*. The **input** to the program should be the *number of hours worked* and the *hourly rate of pay*. Your program output should look as follows and you should test your program using the values shown in the screenshot below:

```
Please input hourly rate: 9.6
Please input hours worked: 45
Hours worked = 45.0 hourly rate = 9.6 gross weekly <u>=</u> 432.0
```

#### Question 3

Write a Pseudocode program that **prompts** the user for *four integer values* and prints their *average*. Your program output should look as follows and you should use the test values shown in the screenshot.

Enter number 1: 1
Enter number 2: 2
Enter number 3: 3
Enter number 4: 4
Answer = 2.5

# Question 4

Write a Pseudocode program that calculates the volume of a cylinder. Your program should **prompt** the user to enter the **radius** and **height** of the cylinder and should use a combination of **constants** and **variables** to calculate the volume. The following formula should be used to calculate the volume, *where* V=volume, r=radius and h=height:

$$V = \pi r^2 h$$

Enter radius: 2.5 Enter height: 11.5 Volume = 225.6875

# Plagiarism

This assessment should be an individual piece of work. Any evidence of plagiarism will result in a grade of zero for all parties involved and will trigger the Universities plagiarism policy 3ASO8 (see course coordination page).