HOMEWORK WEEK 5

# **Introduction:**

*This homework introduces you to take a closer look at User Input. To deepen your understanding of Python you are required to attempt all activities and questions presented within this homework.*

# **Activity 1 – Simple Programs**

**These programs will relate directly to contact covered in previous session.**

1. Write a program to prompt for a file name, and then read through the file line-by-line
2. Write a program which will calculate the cost of petrol based on a road trip in kilometers.

# **Activity 2 – Challenging Programs**

**These programs will challenge what you have learnt in today’s session. You may wish to pseudocode or flow chart them before programming**

1. Write a program which simulates a basic vending machine and provides change based on the users monetary input and item price. Your change total must be represented in dollars and cents.
2. Create a file called Homework.txt. First add a new line to the file:” *This is a Homework, Activity 2, Question 3”* and finally print the content of Homework.txt.