Assignment Lec(2)

(1) Write a program that reads a positive integer and checks if it is a perfect square.

(2) Write a program to make a simple calculator using switch-case. The calculator takes the operation (+ or – or * or /) and takes the two input arguments and print the results.

(3) Write a program that takes one character and checks if it alphabet or not.

(4)Write program that converts any letter from lowercase to uppercase.

(5) Write a program that reads two integers and checks if the first is multiple of the second.

(6) Write a program that calculates the required heater activation time according to the input temperature of water.

- if input temperature is from 0 to 30, then required heating time = 7 mins.
- if input temperature is from 30 to 60, then required heating time = 5 mins.
- if input temperature is from 60 to 90, then required heating time = 3 mins.
- if input temperature is more than 90, then required heating time = 1 mins.
- if temperature is invalid (more than 100), display

"Invalid input"

Example:

Input = 10 → output = 7

Input = 35 → output = 5

(7) Write a program to add two floating numbers. Determine the integer floor of the sum. The floor is the truncated float value, anything after the decimal point is dropped.