**Tutorial 1**

Write pseudocode and draw flowchart for the following questions:

1. Accept a number from user and display it on the screen.
2. Accept 2 numbers from user and display the sum of them.
3. Calculate the area and the circumference for a circle. (area of circle = *πr2* and circumference of circle = *2πr*)
4. Accept marks of 5 subjects from a student, calculate the total and display the average marks.
5. Accept marks of 5 subjects for 3 students, calculate the total and display the average marks for each of them.
6. Accept marks of 5 subjects for any number of students, calculate the total and display the average marks for each of them.
7. Accept marks of any number of subjects for 3 students, calculate the total and display the average marks for each of them.
8. Accept marks of any number of subjects for any number of students, calculate the total and display the average marks for each of them.

**Take home exercise**

1. Accept basic\_pay from an employee, calculate salary of him/her by a per the following formulas and display it on the screen:
   1. grade\_pay is double of basic\_pay
   2. performance\_allowance is 70% of basic\_pay
   3. attendance\_allowance is RM200
   4. housing\_allowance is 20% of basic\_pay
   5. salary = grade\_pay + performance\_allowance + attendance\_allowance + housing\_allowance.
2. Use array for exercise no. 4 to 8.
3. Accept arbitrary number of numbers and print the largest among them.
4. Accept arbitrary number of numbers and print the smallest among them.
5. Calculate sum of first 10 odd numbers.
6. Calculate sum of first 100 even numbers.
7. Calculate the value of *π* from the infinite series *π = 4 – 4/3 + 4/5 – 4/7 + 4/9 – 4/11 + . . .*