Name: $\qquad$

Student\#: $\qquad$

## Assignment 3

## 25

## Loops and Arrays

Use Visual Logic to create a flowchart for the following problems. Print out the flowchart for each problem and staple them to this assignment.

1) Mr. Smith is an instructor at NSCC and his students often wish to know the class average of his exams.

Create a program that will allow Mr. Smith to enter what the exam is out of, all the marks for his students and display the average of the marks. Mr. Smith doesn't know the exact number of students he has, so he would like to enter the marks until he types in -1 .

Sample Output:

2) Write a program, using loops, that generates the following diamond and outputs it to the console

Note that every line contains an odd number of circles.
Sample Output:

3) Write a program that accepts five input values and stores them into an array. The program should display those five numbers in reverse order. The program should then display all the numbers in the array that are larger than the average of the five numbers.

Sample Output:

4) An election is approaching and the candidates of the election want a program to determine who won the election, as well as who came in last place (in order to laugh at him).

Develop a program that will allow the user to enter in the candidates names and the number of votes that person received. The program will then sort the information and output the names of the big winner and big loser.
(Hint: Use parallel arrays.)
Sample Output:


