**Programming Tasks – Selection and Iteration**

**Note 1: in your computer science books, write an algorithm (pseudocode or flowchart) for each of the following tasks.**

**Note 2: Using python, write a program for each of the tasks.**

Task 1: Write a program that asks the user to enter a series of numbers. The program should find the maximum and minimum numbers from the input and display them at the end.

Task 2: Write a program that asks the user to enter a sentence. The program should count the number of vowels (a, e, i, o, u) in the sentence and display the count at the end.

Task 3: Write a program that generates a random number between 1 and 100. The user should then keep guessing the number until they guess correctly. After each guess, display "Too low" if the guessed number is less than the target number or "Too high" if the guessed number is greater than the target number. Once the correct number is guessed, display "Congratulations! You guessed the number!" and end the program.

Task 4: Write a program that takes a set of integers as input. The program should calculate the average of all the even numbers in the list and display the average at the end.

Task 5: Write a program that asks the user to enter a password. The password must meet the following criteria: it should contain at least one uppercase letter, one lowercase letter, and one special character (e.g., !, @, #, $, %). If the entered password meets the criteria, display "Password accepted." Otherwise, display "Password does not meet the criteria" and prompt the user to enter a new password. Repeat this process until the correct password is entered.

Task 6: Write a program that prints all the prime numbers between 1 and 100. A prime number is a number greater than 1 that has no divisors other than 1 and itself.