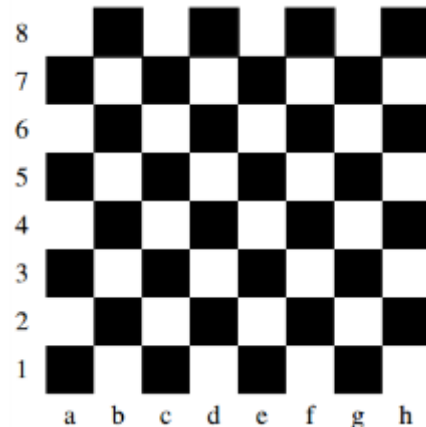# Applied Coding - Language Skill (Basics-Testing)

Solve the following problems using computer with help of Python/C++/Java/C# language as means of communication.

Problem 1: Color of Square

Positions on a chess board are identified by a letter and a number. The letter identifies the column, while the number identifies the row, as shown below:

Write a program that reads a position from the user and determine whether that position represents a black square or a white square. For example, if the user enters a1 then your program should report that the square is black. If the user enters d5 then your program should report that the square is white. Your program may assume that a valid position will always be entered. It does not need to perform any error checking.

Problem 2: Pyramid Pattern

Given the value of n, write a program that displays the following pattern. For the given value of 4 for n, the pattern looks like this:

```
      *
    * * *
  * * * * *
* * * * * * *
```

Problem 3: Next Prime

Write a function named *nextPrime* that finds and returns the first prime number larger than some integer, n. The value of n will be passed to the function as its only parameter. Include a main program that reads an integer from the user and displays the first prime number larger than the entered value.