

1. Write a java program to print the following patterns using loops

a.

```
- - - - -  
+ + + + +  
- - - - -  
+ + + +  
- - -  
+ +  
-
```

b.    1 1 1 1 1  
      2 2 2 2  
      3 3 3  
      4 4  
      5

2. Write a java program to allow the user to enter words that contain less than five characters and terminate when the user enters a word which has five or more than five characters.

Example:    Enter words: cat  
                     cake  
                     doll  
                     Hello  
                     Loop terminated!

3. There are eight integers stored in an array. Write a java program to find the index of a given integer in that array.

Example:

```
A = [4 8 9 6 2 9 9 6]  
Enter the element to search: 6  
Output: The element 6 appears at the index: 4
```

4. Write a java program to print how many times a given element appears in a given array.

Example:

```
A = [4 8 9 6 2 9 9 6]  
Enter the element to search: 6  
Output: The element 6 appears 2 times in A.
```

5. Write a java program to find the most occurring element in an array of integers.

Example:

```
A = [4 8 9 6 2 9 9 6]  
Output: The most occurring element is 9.
```