1. WAP(Write a Program) to remove Duplicates from a String.( Take any String example with duplicates character)

#### Ans:

```
public static void main(String[] args) {
    String str = "Ballooneenn";
    String str2 = " ";
    char[] arr = str.toCharArray();
    for (int i = 0; i < arr.length; i++) {
        if(str2.indexOf(arr[i]) < 0){
            str2 += arr[i];
        };
    }
    System.out.println(str2);</pre>
```

2. WAP to print Duplicates characters from the String

3. WAP to check if "2552" is palindrome or not.

```
Ans:
```

```
package Assignment_revision;

public class Palindrome {
   public static void main(String[] args) {
      String str = "2552";
      String str1 = "";

   for (int i = str.length() - 1; i >= 0; i--) { //reversing string loop
      str1 += str.charAt(i); //Adding every character in str1
    }
   if (str.equals(str1)) { //comparing whether it is a Palindrome or not.
      System.out.println("Given string is PALINDROME");
   } else {
      System.out.println("Given string is not PALINDROME");
   }
}
```

4. WAP to count the number of consonants, vowels, special characters in a String.

```
if (ch >= 'a' \&\& ch <= 'z' || ch >= 'A' \&\& ch <= 'Z') {
          str.toLowerCase(); //convert all alphabets into lowercase
          if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
             vowels++;
          } else
             consonants++:
       } else if (ch >= '0' && ch <= '9') {
          digits++;
       } else
          specialCharacters++;
     }
     System.out.println("vowels: " + vowels);
     System.out.println("consonants: " + consonants);
     System.out.println("digits: " + digits);
     System.out.println("specialCharacters: " + specialCharacters);
  }
}
```

## 5. WAP to implement Anagram checking least inbuilt methods being used.

```
public class Anagram_LeastInbuiltMethodsUsed {
   public static void main(String[] args) {

    String str = "School Master".replace(" ", " ");
    String str1 = "The classroom".replace(" ", " ");

    char arr1[] = str.toLowerCase().toCharArray();
    char arr2[] = str1.toLowerCase().toCharArray();

    Arrays.sort(arr1);
    Arrays.sort(arr2);
```

```
if (Arrays.equals(arr1, arr2)) {
    System.out.println("Given string is ANAGRAM");
} else {
    System.out.println("Given string is not a ANAGRAM");
}
```

# 6. WAP to implement Pangram checking with least inbuilt methods being used.

```
package Assignment_revision;
public class pangram LeastInbuiltMethodsUsed {
  public static void main(String[] args) {
     boolean flag = false;
     String str = "THE QUICK BROWN FOX JUMPS OVER LAZY
DOG".replace(" ", " ");
     char ch[] = str.toCharArray();
     int arr[] = new int[26];
     for (int i = 0; i < ch.length; i++) {
       arr[ch[i] - 65]++;
     for (int i = 0; i < arr.length; i++) {
       if (arr[i] == 0) {
          System.out.println("It is not a PANGRAM");
          flag = true;
       }
     if (!flag) {
       System.out.println("It is a PANGRAM");
  }
```

}

```
7. WAP to find if String contains all unique characters.
```

```
Ans:
package Assignment revision;
import java.util.Arrays;
public class AllUniqueCharacters {
  public static boolean is Unique str(String str) {
     char[] chars = str.toCharArray();
     Arrays.sort(chars);
     for (int i = 1; i < chars.length; ++i) {
       if (chars[i] == chars[i - 1]) {
          return false;
       }
     }
     return true;
  }
  public static void main(String[] args) {
     String str = "xyz";
      String str = "xyyz";
//
     System.out.println("Original String: " + str);
     System.out.println("String has all unique characters: " +
is_Unique_str(str));
}
8. WAP to find the maximum occurring character in a String.
Ans:
package Assignment revision;
import java.util.*;
import java.util.Arrays;
```

```
public class MaximumOccuringCharacterIn String {
  public static void main(String[] args) {
     Scanner in = new Scanner(System.in);
     String k = in.nextLine();
     char tempArray[] = k.toCharArray();
     Arrays.sort(tempArray);
     String s = new String(tempArray);
     int n = s.length();
     int max count = 0;
     int count = 1;
     char ans = '-';
     for (int i = 1; i \le n; i++) {
       if ((i == n) || (s.charAt(i) != s.charAt(i - 1))) {
          if (max_count < count) {</pre>
             max count = count;
             ans = s.charAt(i - 1);
          count = 1;
       } else {
          count++;
        }
     System.out.println("Maximum occurring character is " + ans);
  }
}
```