ASSIGNMENT

Q1 ans-

```
public class Assingnmenr {
 public static void main(String[] args) {
 String s1 = "COOL NITISH";
 String s2 = "";

 for(int i = 0;i< s1.length();i++)
 {
 boolean isRepeat = false;
 for(int j =i+1;j< s1.length();j++)
 {

 if((s1.charAt(i) == s1.charAt(j)))
 {
 isRepeat = true;
 continue;
 }
 }
 if(!isRepeat)
 {
 s2 += s1.charAt(i);
 }
 }
 System.out.println(s2);

 }
}
```

Q2 ans-

```
public class Assingnmenr {
 public static void main(String[] args) {
 String s1 = "COOL NITISH";
 String s2 = "";

 for(int i = 0;i< s1.length();i++)
 {
 for(int j =i+1;j< s1.length();j++)
```

```
 {

 if((s1.charAt(i) == s1.charAt(j)))
 {
 s2 += s1.charAt(i);
 }
 }
 }
 System.out.println(s2);

 }
}
```

Q3 ans-

```
public class Assingnmenr {
 public static void main(String[] args) {
 String s1 = "2552";
 String s2 = "";

 for(int i=s1.length()-1; i>=0;i--)
 {
 s2 += s1.charAt(i);
 }
 if(s1.equals(s2))
 {
 System.out.println("It's Palindrome");
 }else
 {
 System.out.println("Not Palindrome");
 }
 }
}
```

Q4 ans-

```
import java.util.Scanner;

public class Assingnmenr {
 public static void main(String[] args) {
 Scanner scanner = new Scanner(System.in);
```

```
System.out.print("Enter a string: ");
String input = scanner.nextLine();

int vowelCount = 0;
int consonantCount = 0;
int specialCharCount = 0;

// Convert the string to lowercase for easier comparison
String lowerCaseInput = input.toLowerCase();

for (int i = 0; i < lowerCaseInput.length(); i++) {
char ch = lowerCaseInput.charAt(i);

if (Character.isLetter(ch)) {
if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {
vowelCount++;
} else {
consonantCount++;
}
} else if (!Character.isWhitespace(ch)) {
specialCharCount++;
}
}

System.out.println("Number of vowels: " + vowelCount);
System.out.println("Number of consonants: " + consonantCount);
System.out.println("Number of special characters: " + specialCharCount);
}
}
```

Q5 ans-

```
import java.util.Arrays;

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

        String str1="keep";
        String str2="peek";
```

```
        char []ar1=str1.toCharArray();
        char []ar2=str2.toCharArray();

        Arrays.sort(ar1);
        Arrays.sort(ar2);

        if(Arrays.equals(ar1, ar2))
        {
            System.out.println("It's an Anagram");
        }
        else
        {
            System.out.println("Its not an Anagram");
        }
    }

}
```

Q6 ans-

```
public class Pangram
{
    public static void main(String[] args)
  {
       boolean flag=false;
        String str="THE QUICK ROWN FOX JUMPS OVER LAZY DOG";
        str=str.replace(" ", "");
        char []ch=str.toCharArray();

        int ar[]=new int[26];

        for(int i=0;i<ch.length;i++)
        {
            ar[ch[i]-65]++;
        }
        for(int i=0;i<ar.length;i++)
        {
            if(ar[i]==0)
            {
                System.out.println("Its not pangram");
                flag=true;
            }
        }
```

```
        if(flag==false)
        {
            System.out.println("Its pangram");
        }
    }

}
```

Q7 ans-

```
public class UniqueString {
 public static void main(String[] args) {
 String s1 = "ABCD";
 s1 = s1.toLowerCase();
 char[] ch = s1.toCharArray();
 boolean flag = false;
 for(int i=0;i<s1.length();i++)
 {
 for(int j=i+1 ; j < s1.length();j++)
 {
 if(ch[i] == ch[j])
 {
 System.out.println("Not Unique");
 flag = true;
 break;
 }
 }
 }
 if(!flag)
 {
 System.out.println("Unique");
 }
 }
}
```

Q8 ans-

```
public class MaximumOccur {
 public static void main(String[] args) {
 String s1 = "abcccbbbbd";
 s1 = s1.toLowerCase();
 char[] ch = s1.toCharArray();
 int ans = 0;
 int result = 0;

 for(int i=0;i< ch.length;i++)
 {
 for(int j=i+1;j< ch.length;j++)
```

```
 {
 if(ch[i] == ch[j])
 {
 ans++;
 }
 }

 if(result <= ans)
 {
 result = ans+1;
 }
 ans = 0;
 }
 System.out.println(result);

 }
}
```