Day 5 Homework
1.

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int n = sc.nextInt();
        String a[] = new String[n];
        for(int i=0;i<n;i++){
            a[i]=sc.next();
        }
        int flag =1;
        for(int i=0;i<n-1;i++){
            if(a[i].equals("cookie")){
                if(a[i+1].equals("cookie")){
                    flag=0;
                    System.out.println("NO");break;
                }

            }
            else{
                continue;
            }
        }
            if(flag==1){
                System.out.println("Yes");
            }
        }
}
```

2.

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String s = sc.next();
        if(s.indexOf("+91")==0){
            String nextTEN = s.substring(3);
            if(nextTEN.length()==10){
                System.out.println("Mobile number is valid number");
```

```
        }
      }
      else{
        System.out.println("Mobile number is not valid number");
      }
        }
}
```

3.

```java
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String in = sc.next();
        String out ="";
        for(int i=0;i<in.length();i++){
            out += in.charAt(i);
            if(i<in.length()-1 && in.charAt(i)==in.charAt(i+1)){
                out+="*";
            }
        }
        System.out.println(out);
        }
}
```

4.

```java
import java.util.*;

public class Main
{
        public static void main(String[] args) {
                Scanner  sc = new Scanner(System.in);
                String num = sc.nextLine();
                boolean result = isAddNum(num);
                System.out.println(result);
        }
        public static boolean isAddNum(String num){
           int n = num.length();
           for(int i=1;i<n-1;i++){
               long n1 = Long.parseLong(num.substring(0,i));
```

```java
            if(!validNum(num.substring(0,i))){
                break;
            }
            for(int j=i+1;j<n;j++){
                long n2 = Long.parseLong(num.substring(i,j));
                if(!validNum(num.substring(i,j))){
                    break;
                }

                if(doAdd(num.substring(j), n1 , n2)){
                    return true;
                }

            }
        }
        return false;
    }

    public static boolean validNum(String num){
        return num.length()==1 || num.charAt(0)!='0';
    }

    public static boolean doAdd(String rem, long n1 , long n2){
        if(rem.isEmpty()) return true;

        long sum = n1+n2;
        String sumString = String.valueOf(sum);
        if(rem.startsWith(sumString)){
            return doAdd(rem.substring(sumString.length()), n2, sum);
        }
        else{
            return false;
        }
    }
}
```
5.

```java
    import java.util.*;
class Main {
    public static void main(String[] args) {
        int i,k;
        Scanner sc=new Scanner(System.in);
        String s= sc.next();
        int l=s.length();
```

```java
    k=l-1;
    for(i=0;i<l;i++)
    {
        String s1=s.substring(0,k);
        k--;
        String s2=s.substring(i+1,l);
        if(s1.equals(s2)){
            System.out.println(s1);
            break;
        }

    }
  }
}
```