ASSIGNMENT--3

#FIRST PROGAMME

```
class ObjectsCounting{
	static int count=0;
	public ObjectsCounting(){
		count+=1;
	}
	public void display(){
		System.out.println("NO.OF OBJECTS CREATED IS:"+count);
	}
}
public class CountObjects {
	public static void main(String[] args) {
		ObjectsCounting b1=new ObjectsCounting();
		ObjectsCounting b2=new ObjectsCounting();
		ObjectsCounting b3=new ObjectsCounting();
		ObjectsCounting b4=new ObjectsCounting();
		ObjectsCounting b5=new ObjectsCounting();
		ObjectsCounting b6=new ObjectsCounting();
		ObjectsCounting b7=new ObjectsCounting();
		ObjectsCounting b8=new ObjectsCounting();
		ObjectsCounting b9=new ObjectsCounting();
		b1.display();
	}

}
```

#OUTPUT

```
NO.OF OBJECTS CREATED IS:9
```

#SECOND PROGRAMME

```
class OverloadingSwap{
	public void swap(int n1,int n2){
		int n;
		n=n1;
		n1=n2;
		n2=n;
		System.out.println("AFTER SWAPING TWO INTEGERS:"+n1+","+n2);
	}
	public void swap(float n1,float n2){
		float n;
		n=n1;
		n1=n2;
		n2=n;
		System.out.println("AFTER SWAPING TWO FLOAT
NUMBERS:"+n1+","+n2);
	}
	public void swap(double n1,double n2){
		double n;
		n=n1;
		n1=n2;
		n2=n;
		System.out.println("AFTER SWAPING TWO DOUBLES:"+n1+","+n2);
	}
	public void swap(String n1,String n2){
		String n;
		n=n1;
		n1=n2;
		n2=n;
		System.out.println("AFTER SWAPING TWO INTEGERS:"+n1+","+n2);
	}

}
public class Swap {
	public static void main(String[] args) {
		OverloadingSwap  s1=new OverloadingSwap();
		s1.swap(5, 6);
		s1.swap(15.0f, 11.0f);
		s1.swap(73.0098, 63.45122);
		s1.swap("siri", "puji");
	}

}
```

#OUTPUT

```
AFTER SWAPING TWO INTEGERS     :6,5
AFTER SWAPING TWO FLOAT NUMBERS:11.0,15.0
AFTER SWAPING TWO DOUBLES      :63.45122,73.0098
AFTER SWAPING TWO INTEGERS     :puji,siri
```

#THIRD PROGRAMME

```
class Person{
	String firstname,lastname,surname;
	public Person(){
		firstname="";
		lastname="";
		surname="";
	}
	public Person(String first){
		firstname=first;
	}
	public Person(String first,String last){
		firstname=first;
		lastname=last;
	}
	public Person(String first,String last,String sur){
		firstname=first;
		lastname=last;
		surname=sur;
	}
	public void displayPerson(){
		System.out.println("FIRST NAME:"+firstname);
		System.out.println("LAST NAME:"+lastname);
		System.out.println("SUR NAME:"+surname);
	}
}
public class PersonDemo {
	public static void main(String[] args) {
		Person p1=new Person();
		Person p2=new Person("siri");
		Person p3=new Person("siri","pujitha");
		Person p4=new Person("siri","pujitha","danaboyina");
		p2.displayPerson();
		p3.displayPerson();
		p4.displayPerson();
	}

}
```

#output

```
FIRST NAME:siri
LAST NAME:null
SUR NAME:null
FIRST NAME:siri
LAST NAME:pujitha
SUR NAME:null
```

FIRST NAME:siri
LAST NAME:pujitha
SUR NAME:danaboyina

#FOURTH PROGRAMME

```
import java.util.*;
class CheckingAnagram{
	int i,k=0;
	public void anagram(String n1,String n2){
		if (n1.length()==n2.length()){
		 for (i=0;i<n1.length();i++){
			for (int j=0;j<n1.length();j++){
				if (n1.charAt(i)==n2.charAt(j)){
					k=k+1;
				}
			}
		 }
		 if (k==n1.length())
		 System.out.println("GIVEN STRINGS ARE ANAGRAM");
		 else
				System.out.println("GIVEN STRINGS ARE NOT
ANAGRAM");
		}
		else {
			System.out.println("GIVEN STRINGS ARE NOT ANAGRAM");
		}
	}

}
public class Anagram {
	public static void main(String[] args) {
		String n1,n2;
		Scanner sc=new Scanner(System.in);
	  System.out.print("ENTER FIRST STRING:");
	  n1=sc.next();
	  System.out.print("ENTER SECOND STRING:");
	  n2=sc.next();
	  CheckingAnagram  c1=new CheckingAnagram();
	  c1.anagram(n1, n2);
	}

}
```

#OUTPUT

1.

```
ENTER FIRST STRING:listen
ENTER SECOND STRING:silent
GIVEN STRINGS ARE ANAGRAM
```

2.

```
ENTER FIRST STRING:land
ENTER SECOND STRING:lord
GIVEN STRINGS ARE NOT ANAGRAM
```

#FIFTH PROGRAMME

```
import java.util.*;
import java.util.StringTokenizer;
class CaseChanging{
      int i;
      char t;
      public void caseChanging(String s){
            StringTokenizer st = new StringTokenizer(s, " ");
            while(st.hasMoreTokens()) {
            for (i=0;i<s.length();i++){
            if (Character.isUpperCase(s.charAt(i))){
             char c= Character.toLowerCase(s.charAt(i));
             System.out.print(c);
            }
            else{
            char c= Character.toUpperCase(s.charAt(i));
            System.out.print(c);
            }
            }
            break;
            }
      }
}
public class StringCase {
      public static void main(String[] args) {
          String n="tHis Is a pRogRam";
            CaseChanging c1=new CaseChanging();
            c1.caseChanging(n);

      }

}
```

#output

```
ThIS iS A PrOGrAM
```

#SIXTH PROGRAMME

```
import java.util.*;
import java.util.StringTokenizer;

class StringToken{
	String s;
	int n,i=0,j,max,min;
	int arr[];
	Scanner sc=new Scanner(System.in);
	public void maxMin(){
		arr=new int[100];
	System.out.println("ENTER A COMMA SEPARATED LIST OF NUMBERS:");
	s=sc.next();
	StringTokenizer st = new StringTokenizer(s, ",");
	while(st.hasMoreTokens()) {
		String val = st.nextToken();
		n=Integer.valueOf(val);
		arr[i]=n;
		i++;
	}
	max=arr[0];
	min=arr[0];
	for (j=0;j<i;j++){
		if(max<arr[j]){
			max=arr[j];
		}
		if (min>arr[j]){
			min=arr[j];
		}
	}
	System.out.println("MAXIMUN AND MINIMUM NUMBERS ARE:"+max+"  ,
"+min);

}
}
public class MaxMin {
	public static void main(String[] args) {
		StringToken s1=new StringToken();
		s1.maxMin();

	}

}
```

#OUTPUT

1.

```
 ENTER A COMMA SEPARATED LIST OF NUMBERS:10,30,46,12,81,94,7
MAXIMUN AND MINIMUM NUMBERS ARE:94  ,  7
```

2.

```
ENTER A COMMA SEPARATED LIST OF NUMBERS:10,30,46,12,-20,88,101,391
MAXIMUN AND MINIMUM NUMBERS ARE:391  ,  -20
```