**1.Write a program to demonstrate method overloading with 3 different parameters?**

```java
Ans: class Calc{
    public int add(int a, int b){
        int result= a+b;
        return result;
    }
    public int add(int a ,int b, int c){
        int result=a+b+c;
        return result;
    }
    public float add(float a,float b){
        float result=a+b;
        return result;
    }
}
public class MethodOverloading {
    public static void main(String[] args) {
        Calc obj=new Calc();
        System.out.println(obj.add(5,7));
        System.out.println(obj.add(5,7,8));
        System.out.println(obj.add(5.3f,9.6f));
    }
}
```

**2.Write a program to create an object of an class which contain a method and that class method in main method.**

```java
Ans: class Calculate{
    public int sub(int a,int b){
        int result = b-a;
        return result;

    }

}
public class ObjectClass {
    public static void main(String[] args) {
        Calculate obj = new Calculate();
        System.out.println(obj.sub(7,9));

    }
}
```

**3.Write a java program to calculate the sum of all elements in an integer array?**

```java
Ans: public class SumOfArray {
    public static void main(String[] args) {
        int a[]={4,5,6,1,2};
        int res=0;
        for (int n:a) {
            res = res+n;
        }
        System.out.println(res);
    }
}
```

**4.Write a java program to find the index of a specific element in an integer array?**

```java
Ans: public class IndexOfElement {
    public int  findIndex (int a[], int n) {
        int len = a.length;
        int i = 0;
        while (i < len) {
            if (a[i] == n)
                return i;
            else i=i+1;
        }
        return -1;
    }
    public static void main(String[] args) {
        IndexOfElement obj = new IndexOfElement();
        int a[]= {5,7,8,4,2,3};
        System.out.println("Index no. of 8 is: " +obj.findIndex(a, 8));
        System.out.println("Index no. of 2 is: " +obj.findIndex(a, 2));
    }
}
```

**5.Write a java program to print an entire array?**

```java
Ans: public class PrintArray {
    public static void main(String[] args) {
        int a[]={4,5,6,1,2};
        for (int i =0;i< a.length;i++){
            System.out.print(a[i]+" ");
        }
    }
}
```