1. Write a program add the two integer array of size 5 and store the result in the third array.

```
import java.util.Scanner;
public class ArrayAdd {
 public static void main(String[] args)
 {
Scanner sc = new Scanner(System.in);
int[] num1 = new int[5];
int[] num2= new int[5];
int[] sum= new int[5];
for (int i = 0; i < num1.length; i++)
 {
 System.out.println("Enter num1");
num1[i] = sc.nextInt();
}
 for (int i = 0; i < num2.length; i++)
{
System.out.println("Enter num2:");
num2[i] = sc.nextInt();
}
for (int i = 0; i < 5; i++)
 {
sum[i] = num1[i] + num2[i];
}
System.out.println("The sum of num1 and num2 is:");
for (int i = 0; i < 5; i++)
{
System.out.println(sum[i]);
 }
```

```
}
}
```

2. write a program to find the sum of even number and odd number in the array of size 10.

```
import java.util.Scanner;
public class Main{
public static void main(String []args)
{
Scanner sc=new Scanner();
int n,i,odd_sum=0,even_sum=0;
n=sc.nextInt();
int []arr=new int[n];
for(i=0;i<n;i++)
arr[i]=sc.nextInt();
for(i=0;i<n;i++)
{
if(arr[i]%2==0)
even_sum+=arr[i];
else
odd_sum+=arr[i];
}
System.out.println("The sum of odd elements in array: "+odd_sum);
System.out.println("The sum of even elements in array: "+even_sum);
}
}
```

3. Write a program to print lowercase letter from your name.

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

```
public class lowercase
{
public static void main(String[] args)
{
Scanner in = new Scanner(System.in);
System.out.print("Input a String: ");
String line = in.nextLine();
 line = line.toLowerCase();
System.out.println(line);
}
 }
```

4. write a program to count the number of vowels and consonents in the given message.

```
1. public class CountVowelConsonant {
2.     public static void main(String[] args) {
3.
4.                 int vCount = 0, cCount = 0;
5.
6.
7.         String str = "This is a really simple sentence";
8.
9.                 str = str.toLowerCase();
10.
11.             for(int i = 0; i < str.length(); i++) {
12.
13.                 if(str.charAt(i) == 'a' || str.charAt(i) == 'e'
   || sr.charAt(i) == 'i' || str.charAt(i) == 'o' || str.charAt(i) ==
   'u') {
14.                         vCount++;
```

```
15.                 }
16.
17.                 else     if(str.charAt(i)     >=     'a'     &&
   str.charAt(i)<='z') {
18.
19.                     cCount++;
20.                 }
21.             }
22.             System.out.println("Number of vowels: " + vCount);
23.             System.out.println("Number   of   consonants:   "   +
   cCount);
24.
25.     }
26.     }
```

Output:

No of vowels:10

No of consonants:17

5. Repeated Salary Count

```
import java.util.Scanner;

public class RepeatedSalaryCount

{

public static int count = 1;

public static void arrayDetails(int array[], int size)

{

for (int i = 0; i < size; i++)

{
```

```
for (int j = i + 1; j < size; j++)
{
if (array[j] == array[i])
{
count++;
 }
}
}
System.out.println(count);
 }
public static void main(String[] args)
{
int[] array = new int[20];
 int size;
 Scanner scanner = new Scanner(System.in);
 System.out.println("Enter the size");
size = scanner.nextInt();
if (size >= 0)
{
 System.out.println("Enter the number");
for (int i = 0; i < size; i++)
{
array[i] = scanner.nextInt();
 if (array[i] < 0)
```

```
{
System.out.println("Invalid Input");
 System.exit(0);
}
}
arrayDetails(array, size);
 }
 else {
System.out.println("Invalid Input");
 }
}
}
```

6. Write a program maximumSum

```
import java.util.Scanner;
public class MaxSum
{
static int even = 0;
 static int odd = 0;
public static void maximumSum(int num[], int size)
{
for (int i = 0; i < size; i++)
{
```

```
if (num[i] % 2 == 0)
 {
even += num[i];
}
if (num[i] % 2 != 0)
 {
 odd += num[i];
}
 }
System.out.println(Math.max(even, odd));
 }
 public static void main(String[] args)
 {
Scanner sc = new Scanner(System.in);
int[] num = new int[20];
int size;
System.out.println("Enter the size ");
size = sc.nextInt();
 if (size >= 0)
 {
System.out.println("Enter the numbers");
 for (int i = 0; i < size; i++)
{
 num[i] = sc.nextInt();
```

```
 }
maximumSum(num, size);
 }
else
{
System.out.println("Invalid array size");
}
}
 }
```