Assignment-9

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

```java
  package arraypack;

import java.util.Scanner;

public class Ques1 {

public static void main(String[] args) {

// TODO Auto-generated method stub

//datatype[] refvariablename=new datatype[size];

int[] a=new int[5];

int[] b=new int[5];

Scanner sc=new Scanner(System.in);

System.out.println("Enter the array 1 values:");

for(int i=0;i<a.length;i++)

{

a[i]=sc.nextInt();

}

System.out.println("Enter the array 2 values:");

for(int i=0;i<b.length;i++)

{

b[i]=sc.nextInt();

}

int c[]=new int[5];

for(int i=0;i<=5-1;i++)

{

c[i]=a[i]+b[i]; //ADDING
```

```java
}

System.out.println("SUM OF TWO ARRY");

for( int j=0;j<=c.length-1;j++)

{

System.out.println(c[j]); //DISPLAYING

}

}

}
```

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

```java
  package arraypack;

import java.util.Scanner;

public class Ques2 {

public static void main(String[] args) {

// TODO Auto-generated method stub

int[] dim=new int[10];

int sumEven=0,sumOdd=0;

Scanner sc=new Scanner(System.in);

System.out.println("enter the numbers:");

for(int i=0;i<dim.length;i++) {

dim[i]=sc.nextInt();

}

for(int i = 0; i < dim.length; i++)

{

if(dim[i] % 2 == 0)
```

```java
{

sumEven = sumEven + dim[i];

}

else

{

sumOdd = sumOdd + dim[i];

}

}

System.out.println("Sum of Even Numbers:"+sumEven);

System.out.println("Sum of Odd Numbers:"+sumOdd);

}

}
```

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

```java
package arraypack;

import java.util.Scanner;

public class Ques3 {

public static void main(String[] args) {

// TODO Auto-generated method stub

String str;

Scanner scan=new Scanner(System.in);

System.out.println("Enter the String ");

str=scan.nextLine();

System.out.println("\nLower case characters: ");

for(int i=0;i<str.length();i++)
```

```java
{

if(Character.isLowerCase(str.charAt(i)))

{

System.out.print(str.charAt(i)+", ");

}

}

}

}
```

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

```java
package arraypack;

import java.util.Scanner;

public class Ques4 {

public static void main(String[] args) {

// TODO Auto-generated method stub

int vowels_count, consonants_count;

String str;

vowels_count = 0;

consonants_count = 0;

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a meessage to count the vowels and consoants: ");

str = scanner.nextLine();

// str = str.toLowerCase();

for (int i = 0; i < str.length(); ++i) {

char ch = str.charAt(i);

if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u'
```

```java
||ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {

++vowels_count;

}

else

if ((ch >= 'a' && ch <= 'z')||(ch >= 'A' && ch <= 'Z')) {

++consonants_count;

}

}

System.out.println("The number of vowels in the statement is: " + vowels_count);

System.out.println("The number of consonants in the statements is: " + consonants_count);

}

}
```

5 Repeated Salary Count

John is working as a clerk in an organization where N number of people are working. His boss has asked him to get the count of employees who get same salary. Help him to get the count of repeated salary.Include a function named countRepeaters that accepts 2 arguments and returns an int. The first argument is the input array and the second argument is an int that corresponds to the size of the array. The function returns an int that corresponds to the number of repeaters. If the size of the array is negative or if any of the array elements are negative, print "Invalid Input" and terminate the program.Input and Output Format:

```java
package arraypack;

import java.util.Scanner;

public class Ques5 {

public static void main(String[] args) {

// TODO Auto-generated method stub

int n, i,j,k,count=1;

Scanner in=new Scanner(System.in);
```

```java
System.out.println("Enter the number of salary:");

n = in.nextInt();

if(n < 0){

System.out.print("Invalid array size");

System.exit(0);

}

else

{

int a[]=new int[100];

System.out.println("enter the salaries of all employees");

for(i = 0; i< n; i++){

a[i] = in.nextInt();

if(a[i] < 0){

System.out.print("Invalid input");

System.exit(0);

}

}

for(i=0;i<n;i++){

for(j=i+1;j<n;){

if(a[i]==a[j]){

count++;

for(k=j;k<n;k++)

a[k]=a[k+1];

n--;

}
```

```java
else

j++;

}

}

System.out.print("repeated salary count is:"+count);

}

}

}
```

6 maximumSum

Read the question carefully and follow the input and output format.

Given an Integer array, find out sum of Even and odd Numbers individually and find the maximum.

```java
package arraypack;

import java.util.Scanner;

public class Ques6 {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner scanner = new Scanner(System.in);

int size = scanner.nextInt();

if (size < 0) {

System.out.println("Invalid array size");

}

else {

int[] num = new int[size];

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

num[i] = scanner.nextInt();
```

```java
        }

        System.out.println(UserMainCode1.maximumSum(num, size));

    }

  }

}

class UserMainCode1 {

static int maximumSum(int numbers[], int size) {

if (size < 0) {

System.out.println("Invalid array size");

return 0;

} int evenSum = 0;

int oddSum = 0;

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

if (numbers[i] < 0) {

System.out.println("Invalid input");

return 0;

}

if (numbers[i] % 2 == 0) {

evenSum += numbers[i];

}

else {

oddSum += numbers[i];

}

}

return Math.max(evenSum, oddSum);}}
```