Ques 1. Write a java program Add two Numbers.

Ans..

```
import java.util.Scanner;

public class SumOfNumbers
{
public static void main(String args[])
{
int x, y, sum;

//User input
Scanner sc = new Scanner(System.in);
System.out.print("Enter the first number: ");
x = sc.nextInt();
System.out.print("Enter the second number: ");
y = sc.nextInt();

// calling the method to calculate the sum..
sum = sum(x, y);

// printing the sum
System.out.println("The sum of two numbers x and y is: " + sum);
}

//method that calculates the sum
public static int sum(int a, int b)
{
int sum = a + b;
```

```
return sum;
}
}
```

Ques 2. Write a java program Check Whether a Number is Even or Odd.

Ans…

```
import java.util.Scanner;

public class EvenOdd
{

//main method
public static void main(String[] args)
{

// scanner class to get user input
Scanner reader = new Scanner(System.in);

System.out.print("Enter a number: ");
int num = reader.nextInt();

//checking the entered number is  even or odd
if(num % 2 == 0){
System.out.println(num + " is even");
}
else{
System.out.println(num + " is odd");
}
```

```
}
}
```

Ques 3. Write a java program Check If the given Number is palindrome or not.

Ans..

```
import java.util.*;
class Palindrome
{
public static void main(String args[])
{
String original, reverse = ""; // Objects of String class
Scanner in = new Scanner(System.in);
System.out.println("Enter a string/number to check if it is a palindrome \n");
original = in.next();
int length = original.length();

// to get reverse of the string
for ( int i = length - 1; i >= 0; i-- ){
reverse = reverse + original.charAt(i);
}

//checking the reverse and the original
if (original.equals(reverse)){
System.out.println("Entered string/number is a palindrome.");
}
else{
System.out.println("Entered string/number isn't a palindrome.");
}
```

```
}
}
```

Ques 4.Write a java program to find the sum of n natural numbers.

Ans..

```
import java.util.Scanner;
public class AddNumbers {
public static void main(String[] args) {
int number;

// input from user
Scanner in = new Scanner(System.in);
System.out.println("Enter a number \n");
number=in.nextInt();

// calling add numbers method..
int sum = addNumbers(number);
System.out.println("Sum = " + sum);

}

// method to add
public static int addNumbers(int num) {
if (num != 0){
return num + addNumbers(num - 1);
}
else{
return num;
```

```
}
}
}
```

Ques 5. Write a java program to check prime number or not.

Ans…

```
import java.util.Scanner;
public class Main {

public static void main(String[] args) {

int num ;
Scanner in = new Scanner(System.in);
System.out.println("enter a Number \n");
num=in.nextInt();
boolean flag = false;
for (int i = 2; i <= num / 2; ++i) {
// condition for non prime number
if (num % i == 0) {
flag = true;
break;
}
}

if (!flag){
System.out.println(num + " is a prime number.");
}
else{
```

```
System.out.println(num + " is not a prime number.");
}
}
}
```
