

FULL STACK DEVELOPMENT – WORKSHEET -A

Ques 1. Write a java program Add two Numbers ,

```
import java.util.Scanner;
public class SumOfNumbers2
{
    public static void main(String args[])
    {
        int x, y, sum;
        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();
        sum = sum(x, y);
        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;
    }
}
```

Output:-

```
java -cp /tmp/T2jxpRr8ll SumOfNumbers2
```

Enter the first number: 23

Enter the second number: 34

The sum of two numbers x and y is: 57

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

```
import java.util.Scanner;
```

```
public class Odd_Even
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        int n;
```

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

```
        System.out.print("Enter the number you want to check:");
```

```
        n = s.nextInt();
```

```
        if(n % 2 == 0)
```

```
        {
```

```
            System.out.println("The given number "+n+" is Even ");
```

```
        }
```

```
        else
```

```
        {
```

```
            System.out.println("The given number "+n+" is Odd ");
```

```
        }
```

```
    }
```

```
}
```

OutPut:-

```
java -cp /tmp/L4DvHHpfn1 Odd_Even
```

```
Enter the number you want to check:78
```

```
The given number 78 is Even
```

Ques 3. Write a java program Check if a given number is palindrome or not.

```
class PalindromeExample{
    public static void main(String args[]){
        int r,sum=0,temp;
        int n=454; //It is the number variable to be checked for palindrome

        temp=n;
        while(n>0){
            r=n%10; //getting remainder
            sum=(sum*10)+r;
            n=n/10;
        }
        if(temp==sum)
            System.out.println("palindrome number ");
        else
            System.out.println("not palindrome");
        }
    }
```

Output:-

```
java -cp /tmp/L4DvHHpfn1 PalindromeExample
palindrome number
```

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

```
public class SumOfNaturalNumber1
{
    public static void main(String[] args)
    {
        int i, num = 10, sum = 0;
        //executes until the condition returns true
```

```

for(i = 1; i <= num; ++i)
{
//adding the value of i into sum variable
sum = sum + i;
}
//prints the sum
System.out.println("Sum of First 10 Natural Numbers is = " + sum);
}
}

```

Output:-

```

java -cp /tmp/L4DvHHpfn1 SumOfNaturalNumber1
Sum of First 10 Natural Numbers is = 55

```

Ques 5. Write a java program to Check Prime Number or not,

```

public class PrimeExample{
    public static void main(String args[]){
        int i,m=0,flag=0;
        int n=3;//it is the number to be checked
        m=n/2;
        if(n==0||n==1){
            System.out.println(n+" is not prime number");
        }else{
            for(i=2;i<=m;i++){
                if(n%i==0){
                    System.out.println(n+" is not prime number");
                    flag=1;
                    break;
                }
            }
            if(flag==0) { System.out.println(n+" is prime number"); }
        }
    }
}

```

```
}//end of else  
}  
}
```

Output:-

java -cp /tmp/L4DvHHpfn1 PrimeExample

3 is prime number