#### FULL STACK DEVELOPMENT – WORKSHEET-A

### Batch no - FS2308

## Ques 1. Write a java program add two number,

#### Ans:-

```
import java.util.Scanner;
public class sum {
public static void main(String[] args){
Scanner sc = new Scanner(System.in);
System.out.println("Enter two number);
Int x = sc.nextInt();
Int y = sc.nextInt();
System.out.println(x+y);
Run the code =
Enter two number
5
5
= 10
```

**Explanation:** Add two number, first we take integers as input from user and store in integer variable int x and int y. then add both int x and int y "sum". Then finally, print the sum of two given number.

# Ques 2. Write a java program check whether a number is Even or odd,

#### Ans:-

```
import java.util.Scanner;
public class evenodd {
public static void main(String[] args){
Scanner sc = new Scanner(System.in);
System.out.println("Enter a number");
Int x = sc.nextInt();
If(x \% 2 == 0){
System.out.println(x+ "is even number");
else {
System.out.println( x+ " is odd number");
Run the code:-
Enter a number
10
= 10 is even number
```

**Explanation:** if the number is perfectly divisible by 2, suppose number % == 0, this means that number is even number other wise odd number.

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

#### Ans:-

```
public class palindrome{
public static void main(String[] args){
int num = 121;
int rev = 0;
int temp = num;
while(num>0){
rev = rev*10;
rev = rev+num%10;
num = num/10;
If(rev == temp){
System.out.println("This is palindrome");
else {
System.out.println("This is not palindrome");
```

### Run the code:-

This is palindrome

## **Explanation:-** suppose

Num = 121

Rev = 0

Temp = 121

# Step - 1 (while loop)

Rev = o

Rev = 0+1=1

Num= 12

## Step-2

Rev= 1x10=10

Rev= 10+2=12

Num= 12/10= 1

### Step-3

Rev=120

Rev= 120+1=121

Num= 0

#### Step-4

Num=0 so zero can not be greater than zero, so while loop stop so step 4 does not happen. After the value num become zero so if the block is checking rev=temp, Then plendrome is printing.

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

#### Ans:-

```
public class naturalnumber{
public static void main(String[] args){
int num = 10;
int sum = 0;
for(int i=1; i<=10; i++){
sum = sum+i;
}
System.out.println(sum);
}
Run the code:-</pre>
```

### **Explanation:**-

55

Natural number always start with positive number hence all positive number is natural number.

```
Ex- input = 10
Give input 10 then output should be 1+2+3+4+5+6+7+8+9+10 after add all then we get output = 55
```

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

#### Ans:-

```
import java.util.*;
public class primenumber{
public static void main(String[] args){
int num = 6;
Boolean isprime = true;
for(int i = 2; i<=num/2; i++){
System.out,println(i);
If(num % I == 0){
isprime = false;
break;
If(isprime){
System.out.println(num+" is a prime number");
else{
System.out.println(num+" is not a prime number);
```

### Run the code:-

6 is not a prime number

## **Explanation:-**

Prime number is always divide by its self and one

We have input num = 6 is prime or not

As per definition

1,2,3,4,5.. increasing order

For loop

(i=2; i<=num/2 i++)

{ (num % == 0){

If we are going to divide by this number 1,2,3,4,5.. found like reminder is 0 then it is not prime

Declare Boolean isprime= true

6/1, 6/2=0, 6/3=0 6/4......

Isprime=false

Break

After the check if condition apply

Then declare this is prime or not