**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:-**

55

**Explanation:-**

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