**WORKSHEET**

**FULL STACK DEVELOPMENT – WORKSHEET -A**

**Ques 1. Write a java program Add two Numbers,**

**Explantion:**

**Sum of Two Numbers Using Command Line Arguments in Java**

**public class SumOfNumbers4.**

**{**

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

**{**

**int x = Integer.parseInt(args[0]); //first arguments.**

**int y = Integer.parseInt(args[1]); //second arguments.**

**int sum = x + y;**

**System.out.println("The sum of x and y is: " +sum);**

**Solution:**

**class Main {**

**public static void main(String[] args) {**

**int first = 10;**

**int second = 20;**

**int sum = first + second;**

**System.out.println(first + " + " + second + " = " + sum);**

**}**

**}**

**2nd Way to WAP to java program to Add to Numbers**

**public class Main {**

**public static void main(String[] args) {**

**int x = 5;**

**int y = 6;**

**int sum = x + y;**

**System.out.println(sum); // Print the sum of x + y**

**}**

**}**

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

**Explanation:**

**Input an integer input number.**

**Check whether the number is divisible by 2.**

**This means using modulo/remainder operator leaves 0 as a remainder.**

**Do : if (number % 2 == 0) if yes, print Even number if not, print Odd number.**

**Solution:**

**Public class Main**

**{**

**Public static void main(string[] args) {**

**Int number = 39**

**If (number % 2 == 0)**

**System.out.println(number + “ is Even”);**

**else**

**system.out.println( number + “ is Odd”);**

**}**

**}**

**2nd Way to WAP to Check odd or Even Number**

**Public class Main**

**{**

**Public static void main(string[] args)**

**Int number = 39;**

**if (number % 2 == 0)**

**system.out.println(number + “ is even);**

**else**

**system.out.println(number + “ is odd);**

**}**

**}**

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

**Explanation:**

**Get the number to check for palindrome.**

**Hold the number in temporary variable.**

**Reverse the number.**

**Compare the temporary number with reversed number.**

**If both numbers are same, print palindrome number.**

**Else print not palindrome number.**

**Solution:**

**class Main {**

**public static void main(String[] args) {**

**String str = "Radar", reverseStr = "";**

**int strLength = str.length();**

**for (int i = (strLength - 1); i >=0; --i) {**

**reverseStr = reverseStr + str.charAt(i);**

**}**

**if (str.toLowerCase().equals(reverseStr.toLowerCase())) {**

**System.out.println(str + " is a Palindrome String.");**

**}**

**else {**

**System.out.println(str + " is not a Palindrome String.");**

**}**

**}**

**}**

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

**Explantion:**

**Using Function**

**public class SumOfNaturalNumber4.**

**{**

**//method that returns the sum of n natural numbers.**

**static int naturalNumberSum(int n)**

**{**

**int sum = 0;**

**//executes until the condition becomes false.**

**for (int i = 1; i <= n; i++)**

**Solution:**

**import java.util.Scanner;**

**public class Main {**

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

**{**

**int i, n, sum=0;**

**{**

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

**System.out.print("Input number: ");**

**n = in.nextInt();**

**}**

**System.out.println("The first n natural numbers are : "+n);**

**for(i=1;i<=n;i++)**

**{**

**System.out.println(i);**

**sum+=i;**

**}**

**System.out.println("The Sum of Natural Number upto "+n+ " terms : " +sum);**

**}**

**}**

**2nd way to WAP to find the sum of n natural numbers.**

**Public class Main**

**{**

**Public static void main (string[]args)**

**{**

**Int n= 20;**

**System.outprintln (n\*(n+1)/2);**

**}**

**}**

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

**Explantion:**

**public class PrimeExample2{**

**static void checkPrime(int n){**

**int i,m=0,flag=0;**

**m=n/2;**

**if(n==0||n==1){**

**System.out.println(n+" is not prime number");**

**}else{**

**for(i=2;i<=m;i++){**

**Solution:**

**public class Main {**

**public static void main(String[] args) {**

**int num = 29;**

**boolean flag = false;**

**for (int i = 2; i <= num / 2; ++i) {**

**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.");**

**}**

**}**

**2nd Way to WAP to Check Prime and Even Number.**

**public class Main {**

**public static void main(String[] args) {**

**int num = 33, i = 2;**

**boolean flag = false;**

**while (i <= num / 2) {**

**if (num % i == 0) {**

**flag = true;**

**break;**

**}**

**++i;**

**}**

**if (!flag)**

**System.out.println(num + " is a prime number.");**

**else**

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

**}**

**}**