**G. H. RAISONI COLLEGE OF ENGG., NAGPUR**

**(An Autonomous Institute)**

**Department of Computer Science & Engg.**



**Date: 03-08-2021**

**Practical Subject: Java Programming**

**Session: 2021-22**

**Student Details:**

| **Roll Number** | 44 |
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| **Semester** | 9th |
| **Section** | A |
| **Batch** | CSE |

**Practical Details: Practical Number-**

| Practical Aim | Performing Input output operations and using different operators in java |
| --- | --- |
| Theory & Syntax | **#1) Standard Input Stream (System.in)**  **The input stream provided by System class, System.in is used to read the input data from a standard input device like a keyboard.**  **#2) Standard Output Stream (System.out)**  **The System.out interface of the System class is used to write the program output to the standard output device like the monitor. In most cases, the System.out interface writes the command output to the standard output device.**  **Methods:-print,println,write**  **Java Operator Precedence**  **Operator Type Category Precedence**  **Unary postfix expr++ expr--**  **prefix ++expr --expr +expr -expr ~ !**  **Arithmetic multiplicative \* / %**  **additive + -**  **Shift shift << >> >>>**  **Relational comparison < > <= >= instanceof**  **equality == !=**  **Bitwise bitwise AND &**  **bitwise exclusive OR ^**  **bitwise inclusive OR |**  **Logical logical AND &&**  **logical OR ||**  **Ternary ternary ? :**  **Assignment assignment = += -= \*= /= %= &= ^= |= <<= >>= >>>=** |
| Program | Area of Circle:-  package newpackage;  import java.util.Scanner;  public class NewClass {  public static void main(String[] args){  Scanner s=new Scanner(System.in);  float radius,area;  radius=s.nextFloat();  area=radius\*radius\*3.14159f;  System.out.println("area"+area);  }  }  Area of Triangle:-  package newpackage;  import java.util.Scanner;  public class AOT {  public static void main(String[] args){  Scanner s=new Scanner(System.in);  float height,base,areaT;  System.out.println("height of triangle");  height=s.nextFloat();  System.out.println("base of triangle");  base=s.nextFloat();  areaT=height\*base\*0.5f;  System.out.println("Area of triangle is ="+areaT);  }  }  Addition:-  package newpackage;  import java.util.Scanner;  public class addition {  public static void main(String[] args){  Scanner s=new Scanner(System.in);  int int1,int2,sum;  System.out.println("Enter first integer");  int1=s.nextInt();  System.out.println("Enter second integer");  int2=s.nextInt();  sum=int1+int2;  System.out.println("sum of integers is = "+sum);  }  }  Odd even check:-  package newpackage;  import java.util.Scanner;  public class evenOdd {  public static void main(String[] args){  Scanner s=new Scanner(System.in);  int int1;  System.out.println("Enter number to check odd or even ");  int1=s.nextInt();  if(int1%2==0){  System.out.println("The number is Even");  }else{System.out.println("The number is Odd");}  }  } |
| Output |  |
| Conclusion | Learned the concept of Input /Output functions and Operators in java. |