Girls' High School and College,Prayagraj WorkSheetNo.-2 Session:2020-2021

Class: 9th Section: C,D,E Subject:Computer Applications

TOPICS: Working with Methods and Operators in Java

<u>Instruction</u>: Parents are expected to ensure that the student spends two days to read and understand the chapter according to the book and thereafter answer the given questions.

Reference book:

Logix Class 9th (Kips Publications)

WORKING WITH METHODS

Q1. ANSWER THE FOLLOWING QUESTIONS IN SHORT:

- 1. Write any two advantages of using functions in a program.
- 2. Write the prototype of a function check which takes an integer as an argument and returns a character.
- 3. Give the prototype of a function search which receives a sentence sentnc and a word wrd and returns 1 or 0.
- 4. Give the prototype of a function check which receives a character ch and an integer n and returns true.
- 5. What is the role of keyword void before the method name?
- 6. Differentiate between formal and actual parameters.
- 7. What is the return type of main() method?
- 8. Distinguish between non static and static methods.

PROGRAM:

Execute the given program on Bluej to calculate the area of a circle using static and non-static variables.

public class Circle

```
{
static double PI=3.1415;
int radius;
public void setRadius(int r)
radius=r;
public double calculateArea()
double area=PI*(radius *radius);
return area;
public static void main (String args[])
int red =4;
double result;
Circle myCircle=new Circle();
myCircle.setRadius(rad);
result=myCircle.calculateArea();
System.out.println("value of PI is"+Circle.PI);
System.out.println("radius of circle is:"+myCircle.radius);
System.out.println("area of circle is "+result);
}
}
```

OPERATORS IN JAVA

Q1. ANSWER THE FOLLOWING QUESTIONS IN SHORT:

- 1. Give one point of difference between unary and binary operators.
- 2. Name the operators listed below:
- i) <
- ii) ++
- iii) &&
- iv) ?:
- 3. Write one difference between / and % operators.
- 4. What is the value of x1 if x=5? x1=++x-x+++--x;
- 5. What is meant by precedence of operators?

- 6. Write Java statement to create an object MP4 of class digital.
- 7. Write a Java expression for ax5+ bx3+c
- 8. Rewrite the following using ternary operator:

if(x%2==0)

System.out.print("Even");

else

System.out.print("Not even");

9. What is the result stored in x, after evaluating the following expression? int x=5;

x = x + + *2 + 3 * --x;

- 10. What will be the output of the following if x=5?
- I) 5 * ++x
- II) 5 * x++

###END###