FULL STACK DEVELOPMENT – WORKSHEET 3

Q1. Which one of the following is not a Java feature?

A. Use of pointers

Q2. Which of these cannot be used for a variable name in Java?

A. keyword

Q3.Which of the following is a superclass of every class in Java?

A. Object class

Q4.Which one is a valid declaration of a boolean?

A. boolean b3 = false;

Q5. Which is the modifier when there is none mentioned explicitly?

A. default

Q6.All the variables of interface should be?

A. public, static and final

Q7.Which of these data types is used to store command line arguments?

A. Array

Q8.How many arguments can be passed to main()?

A. None of the mentioned

Q9.What will be the output of the following Java program, Command line execution is done as – "java Output This is a command Line"?

```
class Output
{
   public static void main(String args[])
   {
      System.out.print(args[0]);
   }
}
```

A. This

Q10.What is the value of "d" in the following Java code snippet?

```
double d = Math.round ( 2.5 + Math.random() );
```

//B. 3 is a possible value of "d" after the expression is evaluated. However, it's important to note that Math.random() returns a random value between 0 and 1, so the exact value of "d" will be different each time the program is run.

Q11.Which of these methods is a rounding function of Math class?

A. abs()

Q12. Standard output variable 'out' is defined in which class?

A. System

Q13.What will be the output of the following Java program?

```
class main_class
{
   public static void main(String args[])
   {
      int x = 9;
```

```
        if (x == 9)
        {
            int x = 8;
            System.out.println(x);
        }
    }
}
```

A. 8

Q14.Which of these is the method which is executed first before execution of any other thing takes place in a program?

A. main method

Q15.Which of these can be used to differentiate two or more methods having the same name?

A. All of the mentioned

Q16. What will be the output of the following Java program?

```
class Output
{
    static void main(String args[])
    {
        int x , y = 1;
        x = 10;
        if(x != 10 && x / 0 == 0)
            System.out.println(y);
        else
            System.out.println(++y);
    }
}
```

A. 2

Q17.What will be the output of the following Java program?

```
class area
{
   int width;
   int length;
   int height;
   area()
   {
   width = 5;
   length = 6;
   height = 1;
   }
   void volume()
   {
       volume = width * height * length;
   }
}
class cons_method
{
   public static void main(String args[])
   {
      area obj = new area();
     obj.volume();
     System.out.println(obj.volume);
   }
}
```

//It is a wrong / trick question because the output is error i.e.- The output of the code will not be generated because there is a Compilation Error in the code. The error is in the volume method, where a variable "volume" is being assigned a value but is not declared. Also, to access the value of the volume variable, it needs to be declared as public.

Q18. Write Syntax to create/define java methods.

Q19. Write a java program following instructions

A. Make a class Addition

a. initialize sum as 0

- class Addition {

```
    int sum = 0;
}
```

b. make addTwoInt method taking two int parameters a,b. make sum = a+b.
Return Sum -class Addition {

c. int sum = 0;

d.

e. int addTwoInt(int a, int b) {

f. sum = a + b;

g. return sum;

h. }

i. }

B. define class as Method Call. Define main method

a. Create object of class Addition
b. call method using instance of object
c. Print sum

Q20. Write a java program following instructions

A. Define a class Example

a. Define two instance variables number and name
b. Define accessor (getter) methods
c. Define mutator (setter) methods
d. define method printDetails —-> print name and number

```
class Example {
  private int number;
  private String name;

  public int getNumber() {
    return number;
  }

  public void setNumber(int number) {
    this.number = number;
  }

  public String getName() {
    return name;
  }

  public void setName(String name) {
    this.name = name;
  }

  public void printDetails() {
    System.out.println("Name: " + name + " Number: " + number);
  }
```

}

B. Define public class Demo (Main Class)

a. **Define main method**
b. **Make Instance/object of example class**
c. **set number and name using instance created as 123 and Your name.**
d. **call printDetails method using instance**