Worksheet_set_3 solution

Q1. Which one of the following is not a Java feature?
A. Object-oriented
B. Use of pointers
C. Portable
D. Dynamic and Extensible

ANS: Use of pointers;

Q2. Which of these cannot be used for a variable name in Java?
A. identifier & keyword
B. identifier
C. keyword
D. none of the mentioned

Ans : Keyword

Q3.Which of the following is a superclass of every class in Java?
A. ArrayList
B. Abstract class
C. Object class
D. String

Ans : ObjectClass

Q4.Which one is a valid declaration of a boolean?
A. boolean b1 = 1;
B. boolean b2 = 'false';
C. boolean b3 = false;
D. boolean b4 = 'true'

Ans : Option C

Q5. Which is the modifier when there is none mentioned explicitly?
A. protected
B. private
C. public
D. default

ANS: Option D

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Q6.All the variables of interface should be?
A. default and final
B. default and static
C. public, static and final
D. protect, static and final

Ans : option C

Q7.Which of these data types is used to store command line arguments?
A. Array
B. Stack
C. String
D. Integer

Ans : Option A

Q8.How many arguments can be passed to main()?
A. Infinite
B. Only 1
C. System Dependent
D. None of the mentioned

Ans option B

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. java
B. Output
C. This
D. is

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Ans : option C ; system.out.print(args[0]) is the statement inside the main method. This line attempts to print out the first element (index 0) of the args array. Args[0] refers to the first argument, which is "This". So, the program prints out "This".

Q10.What is the value of "d" in the following Java code snippet?
double d = Math.round (2.5 + Math.random());
A. 2
B. 3
C. 4
D. 2.5

Ans : option

Q11.Which of these methods is a rounding function of Math class?
A. max()
B. min()
C. abs()
D. all of the mentioned

Ans :optionD

Q12. Standard output variable 'out' is defined in which class?
A. Void
B. Process
C. Runtime
D. System

Ans : optionD

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);
}
}
}
```

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Ans : 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
B. static method
C. private method
D. finalize method

Ans: Option A

Q15.Which of these can be used to differentiate two or more methods having the same name?
A. Parameters data type
B. Number of parameters
C. Return type of method
D. All of the mentioned

Ans : Option D

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);
}
}
```

Ans : 2

What will be the output of the following Java program?

```
class area
{
int width;
int length;
int height;
```

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```
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);
}
}
```

Ans : 30 (5*6*1 = 30)

Ans:

Accecc_modifier return_type method_name(parameter_list){

Method body…

Statement …

Return return_value;

}

Example:

```
Public int add (int num1 , int num2){

Int sum = num1 + num2 ;

Return sum;

}
```

Write a java program following instructions
A. Make a class Addition
a. initialize sum as 0
b. make addTwoInt method taking two int parameters a,b. make sum = a+b.
Return Sum

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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

Ans :

```
class Addition {
   int sum; // Initialized as 0 by default

   int addTwoInt(int a, int b) {
      sum = a + b;
      return sum;
   }
}

public class MethodCall {
   public static void main(String[] args) {
      // Create an object of class Addition
      Addition calculator = new Addition();

      // Call method addTwoInt using the instance of the object
      int result = calculator.addTwoInt(5, 7);

      // Print the sum
      System.out.println("Sum: " + result);
   }
}
```

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

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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

ans:

```
class Example {
    private int number; // Instance variable
    private String name; // Instance variable

    // Accessor (getter) methods
    public int getNumber() {
        return number;
    }

    public String getName() {
        return name;
    }

    // Mutator (setter) methods
    public void setNumber(int number) {
        this.number = number;
    }

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

    // Method to print details
    public void printDetails() {
        System.out.println("Name: " + name);
```

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```
        System.out.println("Number: " + number);
    }
}

class Demo {
    public static void main(String[] args) {
        // Create an instance/object of Example class
        Example instance = new Example();

        // Set number and name using instance
        instance.setNumber(2222);
        instance.setName("shailendra");

        // Call printDetails method using instance
        instance.printDetails();
    }
}
```