Assignment - 5

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❖ **Which of the following import statements are meaningful?**

a) import java.util;
b) import java.util.ArrayList;
c) import java.util.*;
d) import java.util.ArrayList.*;

❖ **Which of the following declarations are allowed in the same class simultaneously?**

1) **int x =10;**
2) **static int x = 10;**
3) **public void m1()**
   System.out.println(x);
4) **public static void m1()**
   System.out.println(x);

a) 1 and 3
b) 1 and 4
c) 2 and 3
d) 2 and 4
e) 1 and 2
f) 3 and 4

❖ **Which of the following is true?**

a) A class can extend any no.Of classes at a time. (Class can only extend one class at a time)
b) An interface can extend only one interface at a time. (Interface can extend more than one parent interfaces at a time)
c) A class can implement only one interface at a time. (Class can implement multiple interfaces at a time)
d) A class can extend a class and can implement an interface but not both simultaneously. (Suppose we have base class B, derived class A and interface C. We can use -> class A extends B implements C)
e) An interface can implement any no.of interfaces at a time. (An interface can only extend other interfaces)

   NONE OF THE ABOVE ARE TRUE

❖ **Consider the expression X extends Y ,for which of the possibility of X and Y this expression is true?**

a) Both x and y should be classes.
b) Both x and y should be interfaces.

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c) Both x and y can be classes or can be interfaces.
d) No restriction.

❖ **Inside interface which method declarations are valid?**

a) public void methodOne(){}
b) private void methodOne();
c) public final void methodOne();
d) public static void methodOne();
e) public abstract void methodOne();

❖ **Which of the following declarations are valid inside interface?**

a) int x;
b) private int x=10;
c) public final int x=10;
d) protected int x=10;
e) public static final int x=10;

❖ **Create an interface with method getRateOfInterest() and implement this method in ICICI class and AXIS class.**

```
interface ROI

{

  void getRateOfInterest();

}

class ICICI implements ROI

{

  public void getRateOfInterest()

  {

   System.out.println("ROI of ICICI Bank is 2.4");

  }
```

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```java
}


class AXIS implements ROI

{

    public void getRateOfInterest()

    {

        System.out.println("ROI of AXIS Bank is 4.5");

    }

}


public class Banking {

    public static void main(String[] args) {

        AXIS obj = new AXIS();

        obj.getRateOfInterest();

        ICICI obj1 = new ICICI();

        obj1.getRateOfInterest();


    }


}
```