

## 1) Identify what is the mistake?

```
class A
{
    //Class A Members
}

class B
{
    //Class B Members
}

class C extends A, B
{
    //Class C Members
}
```

## 2) What will be the output of this program?

```
package Quiz1;

class A
{
    int i = 200;
}

class B extends A
{
    int i = 20;
}

public class MainClass
{
    public static void main(String[] args)
    {
        A a = new B();

        System.out.println(a.i);
    }
}
```

## 2) What will be the output of this program?

```
package Quiz2;
```

```
class A
{
    {
```

```
        System.out.println(10);
    }
}

class B extends A
{
    {
        System.out.println(9);
    }
}

class C extends B
{
    {
        System.out.println(1);
    }
}

public class MainClass {

    public static void main(String[] args) {
        C c = new C();
    }

}
```

### 3) What will be the output of this program?

```
class A
{
    static
    {
        System.out.println("University Of Colombo");
    }
}

class B extends A
{
    static
    {
        System.out.println("Faculty Of Technology");
    }
}

class C extends B
{
    static
    {
        System.out.println("Department Of ICT");
    }
}
```

```
public class MainClass
{
    public static void main(String[] args)
    {
        C c = new C();
    }
}
```

#### 4) What will be the output of this program?

```
package Quiz4;
class X
{
    static void staticMethod()
    {
        System.out.println("IC 1009");
    }
}

class Y extends X
{
    static void staticMethod()
    {
        System.out.println("Inheritance");
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        Y.staticMethod();
    }
}
```

#### 4) I) why multiple inheritance is not support in java?

#### II) How implement multiple inheritance in java?

#### 5).Which classes use the shape class correctly?

A.

```
public abstract class Circle extends Shape
```

```
{  
  
    private int radius;  
  
}
```

**B.**

```
public class Circle implements Shape    {  
  
    private int radius;  
  
}
```

**C.**

```
public class Circle extends Shape  
  
{  
  
    private int radius;  
  
    public void draw();  
  
}
```

**D.**

```
public abstract class Circle implements Shape  
  
{  
  
    private int radius;  
  
    public void draw();  
  
}
```

**E.**

```
public class Circle extends Shape
{
    private int radius;

    public void draw()
    {
        //Code
    }
}
```

**F.**

```
public abstract class Circle implements Shape {
    private int radius;

    public void draw()
    {
        //Code
    }
}
```