1. Write the output?

```
public class H
{
}
public class I
{
}
public class J
{
    public static void main(String[] args)
    {
        System.out.println("from J class");
    }
}
```

2. Write the output?

```
class X
{
 public static void main(String[] args)
 {
     int x, y, z = 10, p;
     x = 10;
     y = p = 20;
     System.out.println(x);
     System.out.println(y);
     System.out.println(z);
     System.out.println(p);
```

```
        }
    }
```

3. Write the output?

```
class Z
{
    public static void main(String[] args)
    {
        int i;
        System.out.println(i);
    }
}
```

4. Write the output?

```
class A
{
    public static void main(String[] args)
    {
        int i;
        int j = i;
        System.out.println(i);
        System.out.println(j);
    }
}
```

5. Write the output?

```
class E
{
    public static void main(String[] args)
    {
        int i;
        int j = 10 + i;
        System.out.println(i);
        System.out.println(j);
    }
}
```

6. Write the output?

```
class F
{
    public static void main(String[] args)
    {
        int i;
        int j = 10 + ( i = 2) + i;
        System.out.println(i);
        System.out.println(j);
    }
}
```

7. Write the output for the following program?

```
    class C
    {
```

```java
    public static void main(String[] args)

    {

        int i = 0;

        int j = i++;

        System.out.println(i);

        System.out.println(j);

    }

    }
```

8. Write the output for the following program?

```java
class L
{
    public static void main(String[] args)
    {
        int i = 0;
        int j = i++ + i + i-- + i +
        i-- + i++ + i-- + i +
        i++ + i-- + i + i++;
        System.out.println(i);
        System.out.println(j);
    }
}
```

9. What is the output?

```java
    class V
    {
```

```java
        public static void main(String[] args)
        {
            int i = 0;
            int j = ++i + --i + ++i + i +
                --i + i + --i + i +
                ++i + ++i + --i + i +
                --i + i + --i + i;
            System.out.println(i);
            System.out.println(j);
        }
    }
```

10. What is the output?

```java
    class F
    {
        public static void main(String[] args)
        {
            int i = 10;
            if(i = 10)
            {
                System.out.println("from if");
            }
            System.out.println("end of main");
        }
    }
```

11. What is the output?
class J

```java
 {
    public static void main(String[] args)
    {
        boolean flag = false;
        if(!flag)
        {
            System.out.println("from if");
        }
        System.out.println("end of main");
    }
 }
```

12. What is the output?

```java
class S
{
    public static void main(String[] args)
    {
        int i = 0;
        if((i++ == 1) && (i++ == 1))
        {
            System.out.println("from if");
            i++;
        }
        System.out.println("end of main");
        System.out.println(i);
    }
 }
```

13. What is the output?

```java
class U
{
    public static void main(String[] args)
    {
        boolean flag = true;
        if((flag = false) && (flag = true))
        {
            System.out.println("from if");
        }
        System.out.println("end of main");
        System.out.println(flag);
    }
}
```

14. What is the output?

```java
class X
{
    public static void main(String[] args)
    {
        int i = 0;
        if((i++ == 1) || (i++ == 1))
        {
            System.out.println("from if");
            i++;
        }
```

```
        System.out.println("end of main");
        System.out.println(i);
    }
}
```

15. What is the output?

```
class B
{
    public static void main(String[] args)
    {
        if(false)
            System.out.println(1);
            System.out.println(2);
            System.out.println(3);
    }
}
```

19.What is the output?

```
class F
{
    public static void main(String[] args)
    {
        else
        {
            System.out.println("from else");
        }
        System.out.println("main end");
    }
}
```

20. Write the output?

```
 class J
{
 public static void main(String[] args)
 {
     if(false)
     if(true)
         System.out.println("inner if");
     else
         System.out.println("else1");
     else
         System.out.println("else2");
 }
}
```

21. What is the output?

```
 class O
{
 public static void main(String[] args)
 {
     if(false)
     {
         System.out.println("from if");
     }
     else if(false)
     {
         System.out.println("from else if");
```

```
        }
        else if(false)
        {
            System.out.println("from else if 2");
        }
        else
        {
            System.out.println("from last else");
        }
    }
  }
22. What is the output?
    class P
    {
     public static void main(String[] args)
     {
        if(false)
        {
            System.out.println("from if");
        }
        else if(false)
        {
            System.out.println("from else if");
        }
        else
        {
            System.out.println("from last else");
```

```
        }
        else if(false)
        {
            System.out.println("from else if 2");
        }


    }
    }
```

23. What is the output?

```
 class S
 {
  public static void main(String[] args)
  {
      if(false)
      {
          System.out.println("from if");
      }
      System.out.println();
      else if(false)
      {
          System.out.println("from else if");
      }
      else if(false)
      {
          System.out.println("from else if 2");
      }
      else
```

```
        {
            System.out.println("from last else");
        }
    }
}
```

24. What is the output?

```
class D
{
 public static void main(String[] args)
 {
     for(int i = 0; i < 10; i++)
     {
         System.out.println("i value:" + i);
     }
     System.out.println("main end:" + i);
 }
}
```

25. What is the output?

```
class G
{
 public static void main(String[] args)
 {
     for(int i = 0; i < 10; i++);
     System.out.println("loop:" + i);
     System.out.println("main");
 }
}
```

26. What is the output?

```java
class M
{
 public static void main(String[] args)
 {
     int i,j;
     for(i = 0, j = 20;
     (i < 15 || j > 15);
         i++, j--)
     {
         System.out.println(i + "," + j);
     }
     System.out.println(i + "," + j);
 }
}
```

27. What is the output?

```java
class O
{
 public static void main(String[] args)
 {
     int i,j;
     for(i = 0, j = 20;
     (i < 15 && j > 15);
         i++, j--)
     {
         System.out.println(i + "," + j);
```

```
        }
        System.out.println(i + "," + j);
    }
}
```

28. What is the output?

```
  class Q
{
 public static void main(String[] args)
 {
     for(int i = 0; i < 10; i++)
     {
         System.out.println("loop begin");
         if(i > 5)
         {
             continue;
         }
         System.out.println("loop end");
     }
     System.out.println("main end");
 }
}
```

29. What is the output?

```
  class U
{
 public static void main(String[] args)
 {
```

```java
        for(int i = 0; i < 2; i++)
        {
            System.out.println("loop1 begin");
            for(int j = 0; j < 5; j++)
            {
                System.out.println("loop2 begin");
                if(j > 2)
                {
                    break;
                }
                System.out.println("loop2 end");
            }
            System.out.println("loop1 end");
        }
        System.out.println("main end");
    }
}
```

30. What is the output?

```java
    class H
    {
     public static void main(String[] args)
     {
        int i = 0;
        while((i = 2) < 5)
        {
            System.out.println(i);
            i++;
```

```
        }
    }
  }
```

31. Write the output?

```
    class N
  {
   public static void main(String[] args)
   {
       int i = 0;
       while(i < 5)
       {
           System.out.println("loop1 begin");
           int j = 0;
           while(j < 5)
           {
               j++;
               System.out.println("loop2 begin");
               if(j > 1)
               {
                   continue;
               }
               System.out.println("loop2 end");
           }
           System.out.println("loop1 end");
           i++;
       }
   }
```

```
    }
32. Write the output?
     class V
   {
    public static void main(String[] args)
    {
        int i = 0;
        do
        {
            System.out.println("loop1 begin:" + i);
            int j = 0;
            do
            {
                System.out.println("loop2 begin:" + j);
                j++;
                System.out.println("loop2 end:" + j);
            }
            while (j < 2);
            i++;
            System.out.println("loop1 end:" + i);
        }
        while (i < 3);
    }
   }
```