

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
{
    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?

```
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?

```
class V  
{  
    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?

```
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
{
    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?

```
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?

```
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?

```
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?

```
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?

```
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)  
    {  
        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?

```
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);
    }
}
```

---