

Java Quiz

1) class increment {
 public static void main (String args [])
 {
 int g = 3;
 System.out.print(++g * 8);
 }
}

→ $g = 3$
 $++g = 4$

$$\begin{aligned} (++g * 8) &= 4 \times 8 \\ &= 32 \end{aligned}$$

O/P = 32

```
2) class output {  
    public static void main (String args[])  
    {  
        double a, b, c;  
        a = 3.0/0;  
        b = 0/4.0;  
        c = 0/0.0;  
        System.out.println(a);  
        System.out.println(b);  
        System.out.println(c);  
    }  
}
```

O/P = NaN

3) class variable - scope

```
{  
Public static void main (String args[])  
{  
    int x;  
    x = 5;  
    {  
        int y = 6;  
        System.out.print (x + " " + y);  
    }  
    System.out.print (x + " " + y);  
}  
}
```

O/P \Rightarrow Compilation error

cannot find y in variable

4) what will be the error in the following Java code?

```
byte b = 50;
```

```
b = b * 50
```

O/p \Rightarrow * operator has converted $b * 50$ into int, which can be converted to byte without Casting.

5) class evaluate

```
{  
    public static void main (String args [])  
    {  
        int arr[] = new int[] {0,1,2,3,4,5,6,7,8,9};  
        int n = 6  
        n = arr[arr[n]/2];  
        System.out.println(arr[n]/2);  
    }  
}
```

O/p \rightarrow 1

$n = \text{arr}[\text{arr}[n]/2]$

$n = \text{arr}[6/2]$

$n = \text{arr}[3]$

$n = 2$

$= \text{arr}[n]/2$

$= 2/2$

$= 1$

6) class leftshift_operator

```
{  
    public static void main (String args[])  
    {  
        byte x = 64;  
        int i;  
        byte y;  
        i = x << 2;  
        y = (byte) (x << 2);  
        System.out.println(i + " " + y);  
    }  
}
```

O/P → 256 0

x = 64	byte rang
i = x << 2 = 4	
64 x 4 = 256 + x	
	∴ y = 0

7) what will be the output
class output

```
{  
    public static void main (String args[])  
    {  
        int x = y = z = 20;  
    }  
}
```

O/P → compile time error

y and x are not initialize.

8) class box

```
{
    int width;
    int height;
    int length;
}
class mainclass
{
    public static void main (String args[])
    {
        box obj = new box ();
        obj.width = 10;
        obj.height = 2;
        obj.length = 10;
        int y = obj.width * obj.height * obj.length;
        System.out.print(y);
    }
}
```

O/P → 200

$$y = 10 \times 2 \times 10$$

$$y = 200$$

9) class output

```
{
    public static void main (String args[])
    {
        int arr[] = {1, 2, 3, 4, 5};
        for (int i = 0; i < arr.length - 2; ++i)
            System.out.println(arr[i] + " ");
    }
}
```

O/P → 1 2 3

$$\text{arr.length} = 5 \quad (5 - 2 = 3)$$

∴ 1, 2, 3

10) class abc

```
{  
    public static void main (String args [])  
    {  
        if (args.length > 0)  
            System.out.println (args.length);  
    }  
}
```

O/P → The snippet compiles and runs but does not print anything

args is 0 so the code runs but not output is printed.

11) Class Alligator

```
{  
    public static void main (String [] args)  
    {  
        int [][] x = {{1, 2}, {3, 4, 5}, {6, 7, 8, 9}};  
        int [][] y = x;  
        System.out.println { y[2][1] };  
    }  
}
```

O/P → 7

12) class A

{

int i;

void display()

{

System.out.println(i);

}

}

Class B extends A

{

int j;

void display()

{

System.out.println(j);

}

}

Class method - overriding.

{

public static void main (String args[])

{

B obj = new B();

obj.i = 1;

obj.j = 2;

obj.display();

}

}

O/P → 2

B and A both has display () but B inherit A ∴ B display () executes.


```
13) class String_demo  
    {  
    public static void main (String args[])  
    {  
        char chars[] = { 'a', 'b', 'c' };  
        String s = new String(chars);  
        System.out.println(s);  
    }  
    }
```

O/P → abc

initialized strings

∴ abc is execute.

```

14) class recursion
{
    int func(int n)
    {
        int result;
        if (n == 1)
            return 1;
        result = func(n-1);
        return result;
    }
}

```

class output

```

{
    public static void main (String args[])
    {
        recursion obj = new recursion();
        System.out.print(obj.func(5));
    }
}

```

O/P → 1

15) class output

```

{
    public static void main (String args[])
    {
        String c = "Hello I love Java";
        boolean var;
        var = c.startsWith("hello");
        System.out.println(var);
    }
}

```

O/P → False

startsWith() is a case sensitive.

```

16) class output {
    public static void main (String args[])
    {
        StringBuffer s1 = new StringBuffer ("Hello");
        StringBuffer s2 = s1.reverse();
        System.out.println (s2);
    }
}

```

O/P → olleH

reverse() method reverse the string

```

17) class output {
    public static void main (String args[])
    {
        Integer i = new Integer (257);
        byte x = i.byteValue();
        System.out.print (x);
    }
}

```

O/P → 1

byte length is -256 to 256

∴ 1 is printed

18)

Class output

```

{
    Public Static void main (String args [])
    {
        double x = 2.0;
        double Y = 3.0;
        double Z = Math.pow(x, Y);
        System.out.print(z);
    }
}

```

O/P → 8.0

$$2^3 = 8$$

19) Class output

```

{
    Pubic Static void main (String args [])
    {
        double x = 3.14;
        int y = (int) Math.ceil(x);
        System.out.print(y);
    }
}

```

O/P → 4

Print whole no greater or equal to x and its also initialized int \therefore 4 is executed.

20) class output

```
{  
public static void main (String args[])  
{  
    int a = Character.MIN_VALUE;  
    System.out.print((char)a);  
}  
}
```

O/P → Space.

smallest character value is '^'
Space.

21) class networking

```
{  
public static void main (String [] args) throws Exception  
{  
    URL obj = new URL ("https://www.google.com");  
    URLConnection obj1 = obj.openConnection();  
    int len = obj1.getContentLength();  
    System.out.print(len);  
}  
}
```

O/P → 127

22)

class networking

```
{
public static void main (String[] args) throws MalformedURLException
{

```

```
URL obj = new URL ("http://www.google.com");
System.out.println(obj.toExternalForm());
}
}
```

O/p → https://google.com.

23) class ArrayList

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

```

```
ArrayList obj = new ArrayList();

```

```
obj.add("A");

```

```
obj.add("B");

```

```
obj.add("C");

```

```
obj.add("D");

```

```
System.out.println(obj);

```

```
}
```

```
}
```

O/p → [A, B, C, D]

array is added and in last at position of index 1, D is added. A, B, C, D is printed.

24)

```
class date
{
    public static void main (String args [])
    {
        Date obj = new Date ();
        System.out.print(obj);
    }
}
```

O/P → Prints present Time and Date.

25)

```
class Collection_iterators
{
    public static void main (String args [])
    {
        LinkedList list = new LinkedList ();
        list.add (new Integer (2));
        list.add (new Integer (8));
        list.add (new Integer (5));
        list.add (new Integer (1));
        Iterator i = list.iterator ();
        Collection.reverse (list);
        Collection.sort (list);
        while (i.hasNext ())
            System.out.print (i.next () + " ");
    }
}
```

O/P → 1, 2, 5, 8

Collection sort () sorts the
list 1258

26) class multithreaded - programming

```

{
public static void main (String args [])
{
    Thread t = Thread.currentThread();
    t.setName("Name Thread");
    System.out.println(t);
}
}

```

O/P → Thread [New Thread, 5, main]

27) class output

```

{
public static void main (String args [])
{
    StringBuffer s1 = new StringBuffer("Hello");
    StringBuffer s2 = s1.reverse();
    System.out.println(s2);
}
}

```

O/P → olleH

reverse() method reverse the string.

28)

class newthread extends Thread

{

Thread t;

newthread()

{

t1 = new Thread(this.* Thread-1*);

t2 = new Thread(this.* Thread-2*);

t1.start();

t2.start();

}

Public void run()

{

t2.setPriority(Thread.MAX_PRIORITY);

System.out.print(t1.equals(t2));

}

}

class multithreaded-programming.

{

Public static void main(String args [])

{

new newthread();

}

}

O/P → falsefalse

29)

class overload

```
{  
    int x;  
    double y;  
    void add (int a, int b)  
    {  
        x = a + b;  
    }  
    void add (double c, double d)  
    {  
        y = c + d;  
    }  
    overload ()  
    {  
        this.x = 0;  
        this.y = 0;  
    }  
}
```

class Overload - methods

```
{  
    public static void main (String args[])  
    {  
        overload obj = new overload();  
        int a = 2;  
        double b = 3.2;  
        obj.add (a, a);  
        obj.add (b, b);  
        System.out.println (obj.x + " " + obj.y);  
    }  
}
```

O/P → 4, 6.4

30)

```
class string_class
{
    public static void main (String args[])
    {
        String obj = "I LIKE JAVA";
        System.out.println(obj.length());
    }
}
```

O/P → 12

31) class array_output

```
{
    public static void main (String args[])
    {
        int array_variable [] = new int [10];
        for (int i = 0; i < 10; ++i)
        {
            array_variable [i] = i;
            System.out.print (array_variable [i] + " ");
            i++;
        }
    }
}
```

O/P →

32) class multidimension_array

{

Public static void main(String args [])

{

int arr [][] = new int [3] [];

arr [0] = new int [1];

arr [1] = new int [2];

arr [2] = new int [3];

int sum = 0;

for (int i = 0; i < 3; ++i)

for (int j = 0; j < i + 1; ++j)

arr [i] [j] = j + 1;

for (int i = 0; i < 3; ++i)

arr [i] [j] = j + 1;

for (int i = 0; i < 3; ++i)

for (int j = 0; j < i + 1; ++j)

sum += arr [i] [j];

System.out.print (sum);

}

}

%p → 10

in 2D array 1 row is 1 ele 2 row
is 2 ele and 3 row is 3 ele.

33) class array-output

```
{  
public static void main (String args [])  
{  
    char array-variable [] = new char [10];  
    for (int i = 0; i < 10; ++i)  
    {  
        array-variable[i] = 1 '1';  
        System.out.print (array-variable[i] + "");  
    }  
}
```

O/P → 1111111111

34) class array-output

```
{  
    Public static void main (String args [])  
    {  
        int array-Variable [][] = {{1,2,3},{4,5,6},  
                                     {7,8,9}};  
        int sum = 0;  
        for (int i = 0; i < 3; ++i)  
            for (int j = 0; j < 3; ++j)  
                sum = sum + array-Variable [i][j];  
        System.out.print (sum/5);  
    }  
}
```

O/P \rightarrow 9

$\therefore i = 2, j = 2$

\therefore array variable [i][j] = 9.

35) class box

```
{  
    int width;  
    int height;  
    int length;  
    int volume;  
    void Volume (int height, int length, int width)  
    {  
        volume = width * height * length;  
    }  
}
```

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

```
        box obj = new box ();
```

```
        obj.height = 1;
```

```
        obj.length = 5;
```

```
        obj.width = 5;
```

```
        obj.volume = (3, 2, 1);
```

```
        System.out.println (obj.volume);  
    }
```

```
}
```

O/P → 6.

36) class equality

```
{  
    int x;  
    int y;  
    boolean isEqual()  
{  
    return (x == y);  
}  
}
```

class output

```
{  
    public static void main (String args[])  
    {  
        equality obj = new equality();  
        obj.x = 5;  
        obj.y = 5;  
        System.out.println(obj.isEqual());  
    }  
}
```

O/p = \rightarrow True .

new obj is equal.

37) class box

{

int width;

int height;

int length;

int volume;

void volume ()

{

volume = width * height * length;

}

void volume (int x)

{

volume = x;

}

}

class Output

{

public static void main (String args [])

{

box obj = new box ();

obj.height = 1;

obj.length = 5;

obj.Width = 5;

obj.volume (5);

System.out.println(obj.volume);

}

}

O/P → 5

38) 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);
}
}
```

O/P → Compilation Error
main method not found
Public is missing.

39) class area

```
{  
    int width;  
    int length;  
    int height;  
    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);  
    }  
}
```

O/P → 30

40) class recursion

```
{  
int func (int n)  
{  
    int result;  
    result = func (n-1);  
    return result;  
}  
}
```

class output

```
{  
    public static void main (String args)  
    {  
        recursion obj = new recursion();  
        System.out.print (obj.func(12));  
    }  
}
```

O/P → Runtime Error

Infinite loop occurs.