

Say true or false. From 1 to 12.

Q.1	Can We access static variable in non-static method?	1
Q.2	Can Static method access non static variable?	1
Q.3	Can We create more than one static block in a class.	1
Q.4	Is Println() method is present in System class.	1
Q.5	Can we run a program without main method in Java 1.8?	1
Q.6	Does JVM call the main method with object of the class.	1
Q.7	Does PrintStream class is present in java.lang package.	1
Q.8	Does java create the default constructor on its own if constructor is already there in class.	1
Q.9	Constructor is called after creating the object.	1
Q.10	Order of execution: - static block → instance block → constructor is true or false.	1
Q.11	Static block executes for each object.	1
Q.12	Is it compulsory to create a constructor?	1
Q.13	Explain static block with program.	2
Q.14	Explain this keyword with example.	7
Q.15	Write difference between instance variable and Static variable.	7
Q.16	Write difference between constructor and instance block with example.	7
Q.17	Explain static import with example.	7
Q.18	Explain how can we access a method without creating the object of the class.	7
Q.19	Explain by which process we access non static data inside a static method.	7
Q.20	Explain System.out.println()? <i>static block. with example.</i>	7
Q.21	Write the difference between instance block and Constructor.	7
Q.22	Write the difference between method and constructor.	7
Q.23	Write a program to explain the order of execution of instance block, static block, constructor.	7
Q.24	Explain the use of static variable in different scenario.	9

Find the output if given Programs below.(Each Program are 3 marks.)

Q.25

```
class A {
    int x,y;
    void get(int x,int y) {
        this.x=x;
        this.y=y;
        A a=new A();
        a.show();
    }
    void show(){
        System.out.println("x=" +x);
        System.out.println("y=" +y);
    }
}
```

Q.26

```
class A {
    static {
        System.out.println("SOFTWAVES_3");
        A a=new A();
        a.show();
    }
    void show(){
        System.out.println("SOFTWAVES_4");
    }
}
```

Q.27

```
class Demo{
    int x=100;
    public static void main(String ar[]){
        System.out.println(Demo.x);
    }
}
```

Write the answer of the following questions

- | | | |
|------|---|----|
| Q.01 | Write a program which returns the maximum number in 1d array. | 10 |
| Q.02 | Write a program to display 3d array using for each loop. | 10 |
| Q.03 | Explain constructor chaining with Example. | 10 |
| Q.04 | Program to print Sum of even and odd number in an array. | 10 |
| Q.05 | Write a program to merge two array & store it in one array. | 10 |
| Q.06 | Write a program for matrix addition in c. | 10 |
| Q.07 | Write a program to reverse the rows in a 2d Array. | 10 |
| Q.08 | Explain irregular array with example. | 10 |
| Q.09 | Write a java program, addition of n numbers using command line arguments. | 10 |
| Q.10 | Explain length of array with example. | 10 |

Write the Ans of following Question.

- | | | |
|-----|--|----|
| Q.1 | What is instance variable Explain with example.? | 05 |
| Q.2 | What is instance method Explain with example.? | 05 |
| Q.3 | What is this keyword in java Explain with example. | 05 |
| Q.4 | Explain constructor overloading in java with example. | 05 |
| Q.5 | What are the differences between AWT and Swing? | 10 |
| Q.6 | What is Difference Between the Constructor and the Method in Java. Explain with example. | 10 |
| Q.7 | Write a java program to create a method which add 2 1-D array and return a 1-D array. | 10 |
| Q.8 | Write a program to create a snake game. | 50 |

SoftWaves TECHNOLOGIES

414, 4th floor Shagun Tower, Above Apna Sweers Vijay Nagar Indore. Cont.: 97703-97704 Web- www.softwaves.in


```

17.
class Demo{
public static void main(String ag[]){
do{
int y=1;
System.out.println(y++);
}while(true);
}
}

20.
class Demo{
public static void main(String ag[]){
int y=1;
do{
int x=1;
System.out.println(x++);
}while(y++<10);
}
}

23.
class Demo{
public static void main(String ag[]){
for(int i=1;i<=0xa;i+=2){
System.out.printf("%d%n",i);
}
}
}

26.
class Demo{
public static void main(String ag[]){
int i;
for(i=1;i<=10;i+=0.5){
System.out.println(i);
}
}
}

```



```

18.
class Demo{
public static void main(String ag[]){
int i=1;
while(i<=10)
{
if(i<=5)break;
System.out.println(i++);
i++;}}
}

21.
class Demo{
public static void main(String ag[]){
for(int i=0;i<10;i++)
{
System.out.println(i-1);
}
}
}

24.
class Demo{
public static void main(String ag[]){
for(int i=ob1;i<=ob11;i++){
System.out.printf("%o%n",i);
}
}
}

```



```

27.
class Demo{
public static void main(String ag[]){
float i;
for(i=1;i<=10;i+=0.5)
{
System.out.println(i);
}
}
}

```



```

19.
class Demo{
public static void main(String ag[]){
int y=1;
do{
if(y==5)break;
System.out.println(y);
}while(y++<10);
}
}

22.
class Demo{
public static void main(String ag[])
{
int x=85;
System.out.printf("%d%n",x);
System.out.printf("%o%n",x);
System.out.printf("%X%n",x);
System.out.printf("%X%n",0xe);
System.out.printf("%H%n",x);
}
}

25.
class Demo{
public static void main(String ag[]){
for(int i=0;i<=ob11;i++){
System.out.printf("%x ",i);
System.out.printf("%d%n",i);
}
}
}

```



```

28.
class Demo {
public static void main(String ar[])
{
int x=1;
switch(x){
case 1,2->{
System.out.println("ram");
System.out.println("ram-2");}
case 2->System.out.println("sita");
default -> System.out.println("Invalid No.");
} } }
}

```

Core java loops

```
29.
class Demo{
public static void main(String ar[]){
int a=1,b = 2,c=3,d=4,x=3;
switch(x){
case a:System.out.println("Softwaves__1");
case b:System.out.println("Softwaves__2");
case c:System.out.println("Softwaves__3");
case d:System.out.println("Softwaves__4");
break;
default:System.out.println("Invalid Choice");
}}
```

```
32.
class Demo {
    public static void main(String ar[]) {
        int x=1;
        switch(x){
            case 1-> System.out.println("SoftWaves_1");
            case 2-> System.out.println("SoftWaves_2");
        }
    }
}
```

```
35.
class Demo{
public static void main(String ar[]){
    K:
    for(int i=1;i<=5;i++){
        for(int j=1;j<=5;j++){
            if(j==4)break K;
            System.out.println(j+"\t");
        }
    }
    System.out.println();
}}
```

```
30.
class Demo {
    public static void main(String ar[]) {
        int x=1;
        switch(x){
            case 1->System.out.println("ram");
            System.out.println("ram-2");
            case 2->
                System.out.println("sita");
            default ->
                System.out.println("Invalid No.");
        } } }
```

```
33.
class Demo{
public static void main(String ar[]){
int i = 1;
K:
{
    System.out.println("softwaves__1");
    System.out.println("softwaves__2");
    if(i==1)continue K;
    System.out.println("softwaves__3");
}
System.out.println("softwaves__4");
}}
```

```
31.
class Demo {
    public static void main(String ar[]) {
        int x=1;
        switch(x){
            case 1,2:
                System.out.println("ram");
            case 3,4:
                System.out.println("sita");
            default : System.out.println("Invalid No.");
        } } }
```

```
34.
class Demo{
public static void main(String ar[]){
int i = 2;
K:
{
    System.out.println("softwaves__1");
    System.out.println("softwaves__2");
    if(i==1)break K;
    System.out.println("softwaves__3");
}
System.out.println("softwaves__4");
}}
```

Write the Ans of following the Questions.

- | | | |
|------|---|---|
| Q.1 | What is platform independent? | 2 |
| Q.2 | Who invented java language? | 2 |
| Q.3 | What is the syntax to compile the java program? | 2 |
| Q.4 | How many data type java have? | 2 |
| Q.5 | Can we use same name in two different variables? | 2 |
| Q.6 | What are all the escape characters in java? | 2 |
| Q.7 | What is the working of 0x with number? | 2 |
| Q.8 | 'What is the working of 0b with number? | 2 |
| Q.9 | What is first name of java? | 2 |
| Q.10 | Write a java program to add two numbers without using addition operator? | 2 |
| Q.11 | What is ASCII value from A-Z, a-z and 0-9? | 2 |
| Q.12 | What happen when we use %.3f as format modifier with float value in java? | 2 |
| Q.13 | What happen when we use %4d as format modifier with int value in java? | 2 |
| Q.14 | What happen when <u>(x=2)</u> and <u>(y=x+++++2)</u> ? | 2 |
| Q.15 | What is Type Casting in Java? | 2 |
| Q.16 | When 'incompatible types' error occurs. | 2 |
| Q.17 | When 'bad operand types' error occurs. | 2 |
| Q.18 | When 'NaN' output occurs in program in java? | 2 |
| Q.19 | What happen in int a=b-c-d=10; in java? | 2 |
| Q.20 | What is Unicode in java? | 2 |

Find the output of the following Programs,(Q21) to Q40 carry 3 marks each).**Q21**

```
class Demo {
    public static void main(String ar[]) {
        int x='A';
        System.out.println(x);
        System.out.println("X");
        System.out.println(""+x);
        System.out.println("n"+x);
        System.out.println("n+(x+x)");
        System.out.println("n+(x+x)+");
        System.out.println("n+(x+x)+");
        System.out.println("n+(x+x)+");
        System.out.println("n+(x+x)+");
    }
}
```

Q22

```
class Demo {
    public static void main(String ar[]) {
        char x='A';
        System.out.println(x);
        System.out.println("X");
        System.out.println(""+x);
        System.out.println("n+x");
        System.out.println("n+x+x");
        System.out.println("n+(x+x)+");
        System.out.println("n+(x+x)+");
        System.out.println("n+(x+x)+");
    }
}
```

Q23

```
class Demo {
    public static void main(String ar[]) {
        byte x=10;
        byte y=10;
        byte z=(byte)x+y;
        System.out.println(z);
    }
}
```

Q24

```
class Demo {
    public static void main(String ar[]) {
        short A=20;
        short B=10;
        short x=A/B;
        System.out.println(x);
    }
}
```

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Data Type & Operator Case Java

Q26

```
(Q25) class Demo {
    public static void main(String ar[]) {
        char A='A';
        char B='B';
        char C='C';
        char D='D';
        int x=x+A+B;
        float x1=x=A+B;
        long x2=x=A+B;
        double x3=x=A+B;
        System.out.println(x);
        System.out.println(x1);
        System.out.println(x2);
        System.out.println(x3);
        System.out.println(A+B+C+D);
        System.out.println(A+B+C+D);
        System.out.println("A "+B+" >" +(C+D));
        System.out.println("A "+B+" >" +(C+(D)));
        System.out.println("A "+B+" >" +((C)+(D)));
    }
}
```

Q27

```
class Demo {
    public static void main(String ar[]){
        float f=10.5;
        System.out.println(f);
    }
}
```

Q28

```
class Demo {
    public static void main(String ar[]){
        String a="10-20+30-10-20";
        System.out.println(a);
    }
}
```

Q29

```
(Q30) class Demo{
    public static void main(String ar[]){
        int x=0,y=1,z=1;
        char y=65;
        int z=65;
        System.out.println(x);
        System.out.println(y);
        System.out.println(z);
    }
}
```

Q31

```
class Demo {
    public static void main(String ar[]){
        int x=0;
        int z=++x+x++ + ++x + --x - x--;
        System.out.println(z);
    }
}
```

Q32

```
class Demo {
    public static void main(String ar[]){
        char A=65;
        char B=1;
        char D=65+1;
        int x=A+B;
        char C=(char)x;
        System.out.println(C);
        System.out.println(D);
    }
}
```

```
Q33
class Demo {
    public static void main(String ar[])
    {
        short a='A';
        short b='B';
        System.out.println(""+a+b);
        System.out.println(""+(a+b));
        System.out.println(a+"<,>"+b);
    }
}
```

```
Q34
class Demo {
    public static void main(String ar[])
    {
        byte x=120;
        byte y=8;
        byte z=(byte)x+y;
        System.out.println(z);
    }
}
```

```
Q35
class Demo{
    public static void main(String ar[])
    {
        int x=50;
        int y=050;
        int z=0x50;
        System.out.printf("%d\n",x);
        System.out.printf("%d\n",y);
        System.out.printf("%d\n",z);
    }
}
```

```
Q36
class Demo{
    public static void main(String ar[])
    {
        int x=062;
        int y=06110;
        int z=x+y;
        System.out.println(x);
        System.out.println(y);
        System.out.println(z);
    }
}
```

```
Q37
class Demo{
    public static void main(String ar[])
    {
        int x=-5;
        int y=-6;
        System.out.println(x&y);
        System.out.println(x|y);
        System.out.println(x^y);
    }
}
```

```
Q38
class Demo {
    public static void main(String ar[])
    {
        String a="10+20+"+"Ram"+'C'+A+'B';
        System.out.println(a);
    }
}
```

```
Q39
class Demo {
    public static void main(String ar[])
    {
        int x=-20;
        int y=-18;
        System.out.println(x&y);
        System.out.println(x|y);
        System.out.println(x^y);
    }
}
```

```
Q40
class Demo{
    public static void main (String ar[])
    {
        float x=2147483648;
        System.out.println(x);
    }
}
```