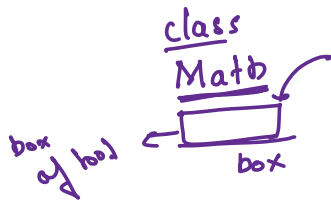


Inbuilt Math functions

$$a^b \rightarrow 2^3 \rightarrow 8 \rightarrow 2 \times 2 \times 2$$

$$\rightarrow \underbrace{a \times a \times a \dots}_{b \text{ times}}$$



$$\text{Math.pow}(a, b) \rightarrow a^b \rightarrow \text{power of } a^b$$

$$9^{10} \rightarrow \text{Math.pow}(9, 10) \rightarrow$$

$$10^{10} \rightarrow \text{Math.pow}(10, 10)$$

$$2^3 \rightarrow \text{Math.pow}(2, 3) \rightarrow \text{8 o/p.}$$

→

$$5.8 \rightarrow 5.0$$

$$4.1 \rightarrow 4.0$$

$$4.5 \rightarrow 4.0$$

$$4.9 \rightarrow 4.0$$

6 - int
7 - int
8
9
float / double



$$\rightarrow \text{Math.floor}(\text{num});$$

$$\text{Math.floor}(-5.5); \text{ o/p. later}$$

→

$$5.9 \rightarrow 6$$

$$5.1 \rightarrow 6 \quad 2 \text{ double}$$

$$\text{Math.ceil}(\text{num});$$

$$\text{Math.ceil}(5.1) \rightarrow 6$$

$$\text{Math.ceil}(9.5) \rightarrow 10$$

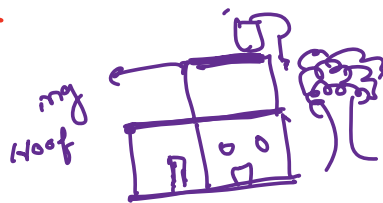
$$\text{Math.ceil}(-5.5) \rightarrow$$

$$\rightarrow \text{Math.round}(5.2) \rightarrow 5$$

$$\text{Math.round}(5.6) \rightarrow 6$$

$$\text{Math.round}(5.5) \rightarrow$$

if value below .5 → floor.



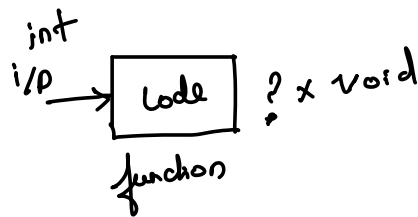
if value is above -5 \rightarrow ceil.

Q \rightarrow Given n , check whether n is even or odd. using functions

1) print "Even" or "Odd"

2) return true if even and return false if it's odd.

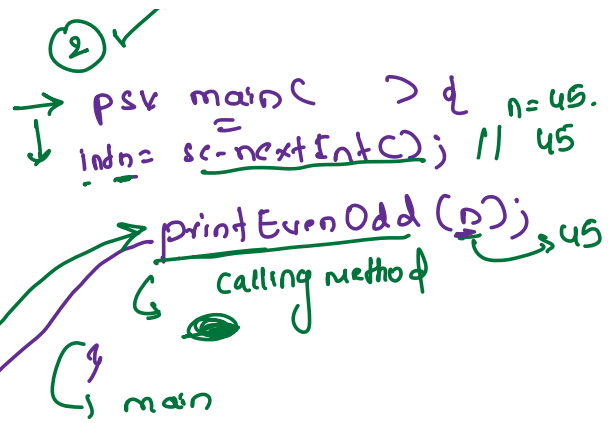
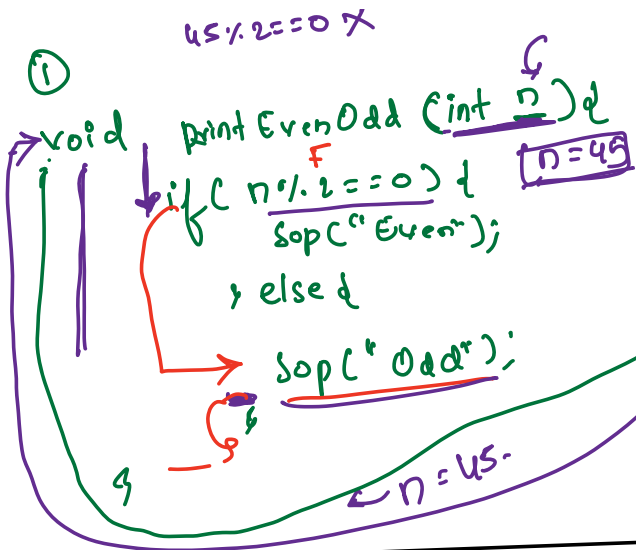
1) Print Even or Odd:



static return DataType function Name (inputDataType inputName)

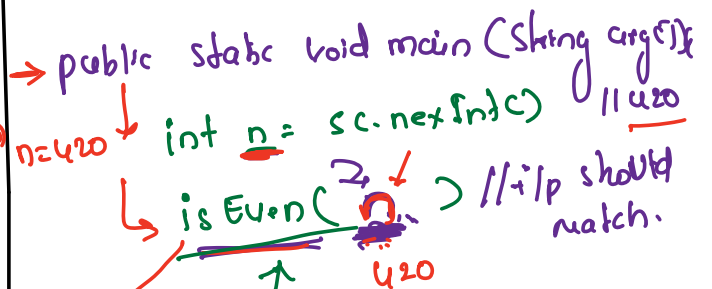
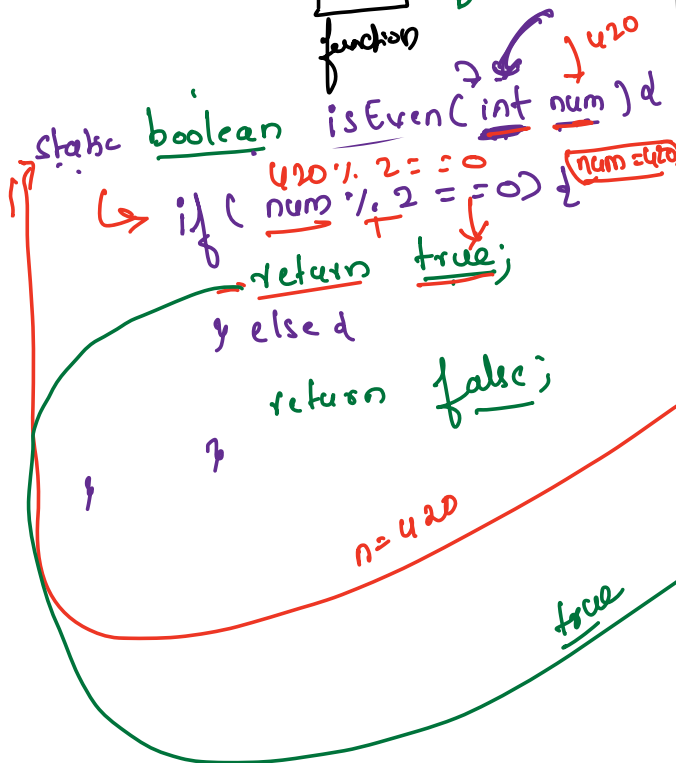
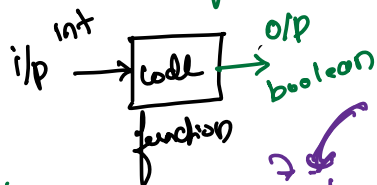
return _____;

↓



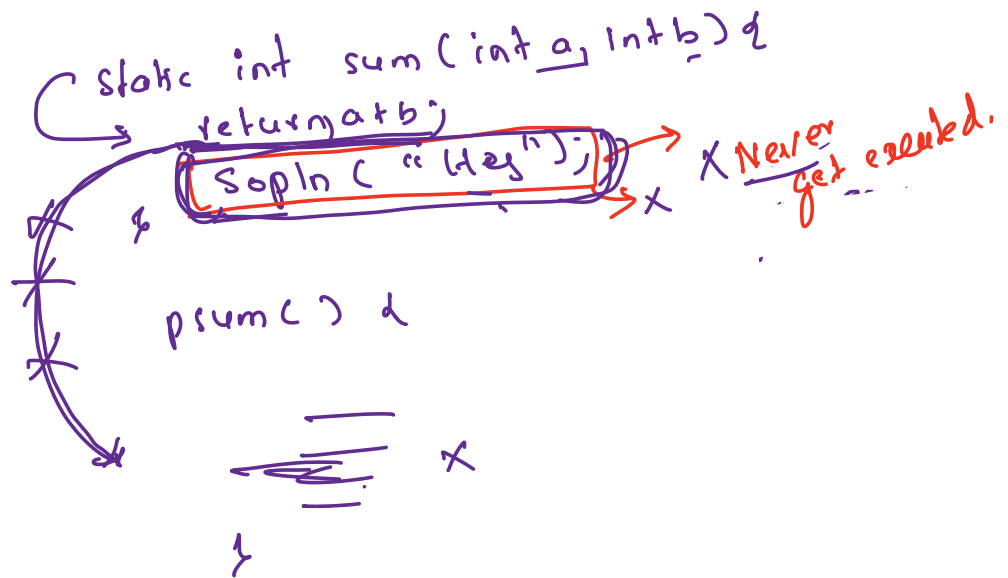
O/p → ODD

ii) which return true → Even
 return false → Odd

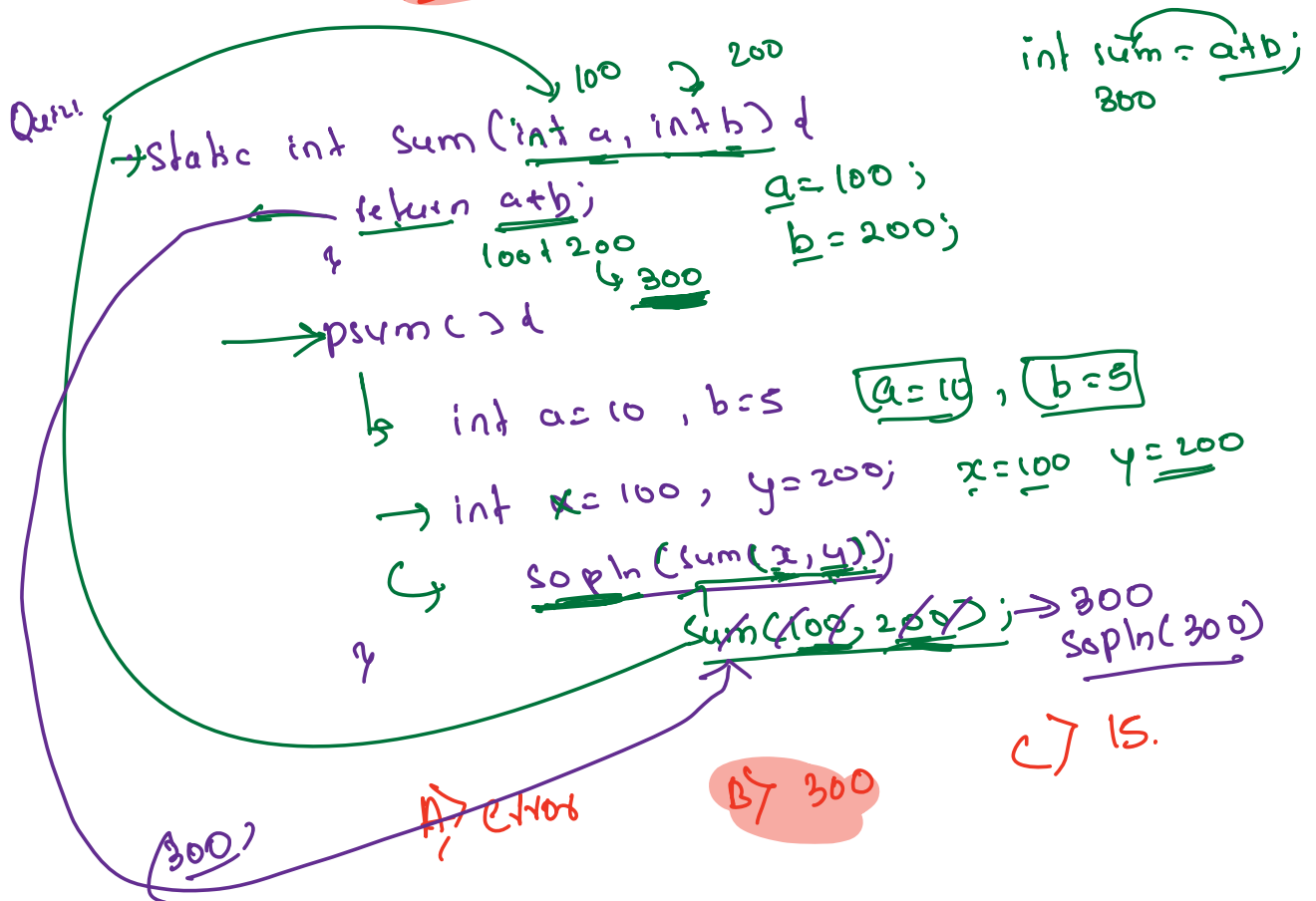


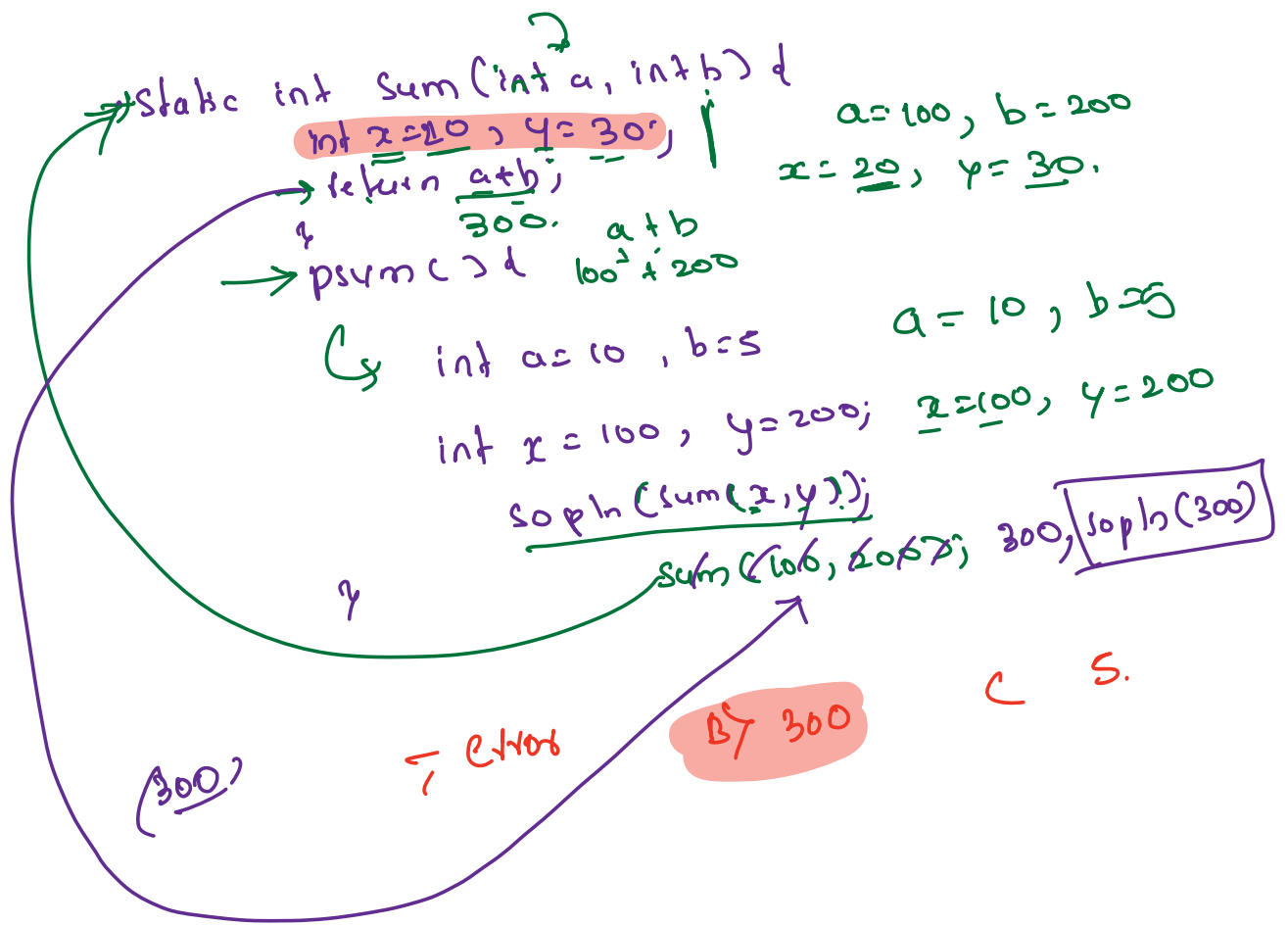
- ① error
- ② true!
- ③ None

Quiz 2



Ans → C. E





Pract session

static void sum c {

}

static void sum c {

}

double = 0.30000000000000004 0.2 + 0.1 → 0.3
 float sum = 0.2 + 0.1

4

A → average num of cases daily
 B → Sum of new cases daily
 C → current active case of corona.

A → → (5) recover 5
 B → new cases. → 3
 C → 1

Mon - 1
 ↓
 end - 3
5
 10

1 → 3
1+3 ⇒ (4) $\frac{4 \times 5}{0}$ A=4
 Mon - 2 B=3
 ↓ C=2
2+3 = 5. $\frac{5}{10}$ (4) (2)
(1)

$\frac{5-9}{(1)}$
(5)
3
(1)
(1+3)
(4)
9+5 (1)
(-1) 10

gcd(12, 24)
(12)

```
public static void printNum(int n) {  
    return n;  
}
```

→ returning values

W.a.f. to print gcd of a number

W.a.f. to return gcd of a number

```
public static int getGcd(int a, int b) {  
    int gcdNum;
```

```
    return gcdNum;  
}
```