

Basic Programming

09 February 2026 20:34

- ✓ Q1. Find the Sum of N Natural Numbers
- ✓ Q2. Print the Multiplication Table of 7
- ✓ Q3. Find the Factorial of a Number
- ✓ Q4. Print All Even Numbers from 1 to 100 using a Loop
- ✓ Q5. Find the Sum of Digits of a Given Number using a Loop
- ✓ Q6. Reverse a Number using a While Loop
- ✓ Q7. Print the following pattern:

H.W

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

Imp.

- ✓ Q8. Print all the prime number between 1 to n.
- ✓ Q9. A given year is a leap year or not.

year

20

→ JDK (Java development kit).

↳ JRE (Java Runtime Environment).

↳ JVM (Java virtual machine).

↳ Byte Code

→ Naming Conventions

↳ Pascal Convention

↳ Class Bca Class

Bca Class

↳ camel case convention

→ Camel Case Conventions

beaClass

→ $n = 10$

$$i = 1 \rightarrow \text{Sum} = \cancel{0+1} \quad 1$$

$$i = 2 \rightarrow \text{Sum} = 1+2$$

$$i = 3 \rightarrow \text{Sum} = 1+2+3$$

⋮

$$i = 10$$

$$\rightarrow \text{Sum} = 1+2+\dots+10$$

2nd Q

$$\begin{array}{l} n = 7 \\ i. \\ \text{for } (1 \rightarrow 10) \\ i \times 7 \quad (n) \end{array}$$

$$i = 1$$

$$1 \times 7$$

$$2 \times 7$$

$$3 \times 7$$

⋮

$$10 \times 7$$

3rd Q

$$i = 1 \rightarrow n$$

$$a = 1;$$

$$a \times i \quad (i = 1)$$

$$a = 1 \times 1 = 1$$

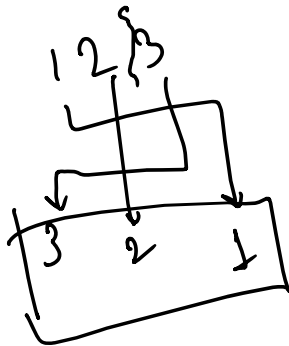
$$i=2 \rightarrow a \times 2 = 1 \times 2$$

$i=3$

$$1 \times 2 \neq 3$$

$$1 \times 2 \times 3 \times \dots \times n$$

6 Ans →



$$n \% 10$$

$$\rightarrow 3$$

$$\text{num} = 0 \quad \boxed{\text{num} \times 10 + \text{rem}}$$

$$\text{num} = 3$$

$$n = 123 / 10 = 12$$

$$\text{num} = 3 \times 10 + 2 \quad n = 12 \quad \boxed{12 \% 10 = 2}$$

$$= 32$$

$$32 \times 10 + 1$$

$$n = 12 / 10$$

$$n = 0$$

$$\boxed{= 321}$$

Q9:

2016 % 4

2000

2100

400

2100
100
90

810

0

```
if((year%4==0&&year%100!=0)|| (year%400==0))  
System.out.println("Yes");
```

=0

↪ No