

# 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:

\* \* \* \* \*  
\* \* \* \* \*  
\* \* \* \* \*  
\* \* \* \* \*  
\* \* \* \* \*

Topic

- ✓ 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 BcaClass

Bca Class

| ↳ snake convention

↳ Camel Case Convention

beaClass

↳  $n = 10$

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

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

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

:

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

=

~~2<sup>nd</sup> Q~~ .  $n = 7$   
for ( $i \rightarrow 10$ )  
 $i \times 7$  (a)

i = 1

$$1 \times 7$$

$$2 \times 7$$

$$3 \times 7$$

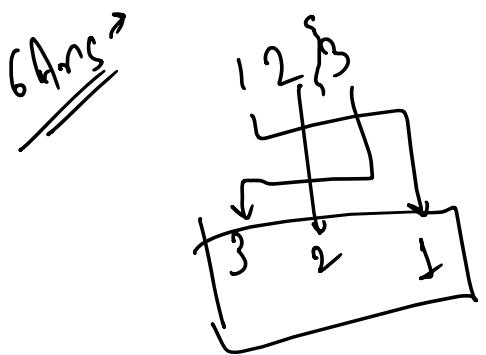
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$$10 \times 7$$

~~Q3~~ i = 1 → n      a = 2<sup>i</sup>

~~Q3~~ a × i    (i = 1)    a = 1 × 1 = 1

$$\begin{array}{rcl} i=2 & \longrightarrow & a \times^2 = 1 \times^2 \\ & & \\ & \vdots & 1 \times 2 \times^3 \\ & \vdots & \\ & \vdots & 1 \times 2 \times^3 \times \cdots \times^n \end{array}$$



$$\begin{array}{c} \text{m}_0/0 \downarrow 0 \\ \text{L} \downarrow 3 \end{array} \quad \text{10) } \begin{array}{c} 123 \\ 120 \\ \diagup 3 \end{array}$$

$$m_{\text{cm}} = 0 \quad \cancel{\checkmark} \quad m_{\text{cm}} + 10 + r_{\text{cm}}$$

$$\text{num} = 3 \quad n = 123 / 10 = 12$$

$$2 \times 12 = n = 12 \quad \boxed{11 = 0}$$

$$10^{10} = 3 \times 10 + 2 \quad n = 12 \quad \boxed{11 = 0}$$

≤ 32

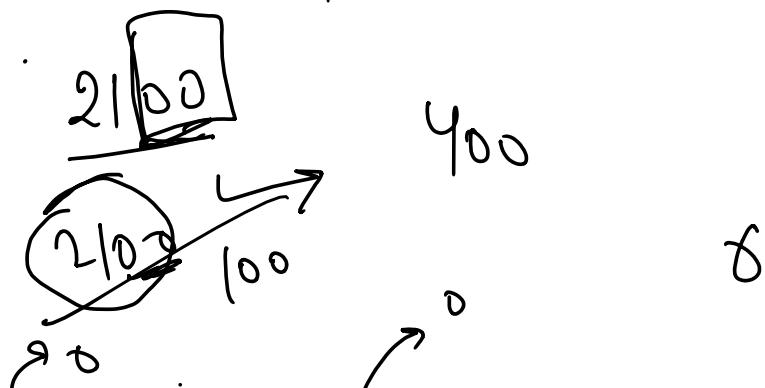
$$32 \neq 10 + 1 \quad * \quad n = 2 / 10$$

$$= 321 \quad n=0$$

~~Q9.~~

2016/04

~~2000~~



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

↙ No