

Ques Print final value of a, b and c.

| | | | |
|-------------------|-------|---|---|
| int <u>a</u> = 5; | a = 5 | b | c |
| b = <u>a</u> ++; | 6 | 5 | - |
| c = b++; | | 6 | 5 |
| a = ++b; | 7 | 7 | |
| b = ++c; | | 6 | 6 |
| c = ++a; | 8 | | 8 |
| a = b++; | 6 | 7 | |
| b = ++c; | | 9 | 9 |
| c = <u>a</u> ++; | 7 | | 6 |

a = 7, b = 9, c = ~~6~~

Ques Print a, b, c

int a, b, c

a

b

c

| | | | |
|----------|----|----|---|
| a = 5 | 5 | - | - |
| b = ++a; | 6 | 6 | - |
| c = ++b; | 6 | 7 | 7 |
| a = b++; | 7 | 8 | 7 |
| b = c++; | 7 | 7 | 8 |
| c = ++a; | 8 | 7 | 8 |
| a += b; | 15 | 7 | 8 |
| b -= c; | 15 | -1 | 8 |
| c += b; | 15 | -1 | 7 |
| b--; | 15 | -1 | 7 |
| a++; | 15 | -2 | 7 |
| c--; | 16 | -2 | 7 |

a = a + b

b = b - c

c = c + b

↙
a++, --b, ++c
(16) (-3) (7)

6

a = 16 , b = -2 , c = 6

⇒ Conditions (if condition)

syntax

```
if ( condition ) {  
    // statement  
}
```

Ques print the number if it is greater than 100.

```
if ( n > 100 ) {  
    System.out.println( n );  
}
```

syntex 2

```
if ( condition ) {  
    // statement 01  
}  
else {  
    // statement 02  
}
```

Note:-

conditions will
get checked
from top to
bottom.

Ques print number if it is +ve otherwise
print its double.

```
if ( n > 0 ) {  
    System.out.println ( n );  
}  
else {  
    System.out.println ( 2*n );  
}
```

Adult or not 1

code

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int age = scn.nextInt();  
  
        if ( age >= 18 ) {  
            System.out.println("Adult");  
        } else {  
            System.out.println("Below age");  
        }  
    }  
}
```

Shop Discount

↳ each unit is of 100 Rs

↳ you bought 11 units

$$\text{total cost} = 11 \times 100 = 1100$$

$$\text{discount} = 1100 \times \frac{10}{100} = 110$$

$$\begin{aligned}\text{final price} &= 1100 - 110 \\ &= 990\end{aligned}$$

code

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int unit = scn.nextInt(); // 5  
  
        int totalPrice = unit * 100; // 500  
        if ( totalPrice > 1000 ) {  
            int discount = totalPrice / 10;  
            totalPrice -= discount;  
        }  
        System.out.println(totalPrice); // 500  
    }  
}
```

High Sum or Low Sum

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int x = scn.nextInt();  
        int y = scn.nextInt();  
  
        int sum = x + y;  
        if ( sum >= 100 ) {  
            System.out.println("High Sum");  
        } else {  
            System.out.println("Low Sum");  
        }  
    }  
}
```


Print Bonus

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int salary = scn.nextInt();  
        int years = scn.nextInt();  
  
        if ( years > 5 ) {  
            int bonus = (salary * 5) / 100;  
            System.out.println(bonus);  
        } else {  
            System.out.println(0);  
        }  
    }  
}
```