

Greater than 100 or not

input

$n = 5$

boolean ans = ($n > 100$) ;

code

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int n = scn.nextInt();  
  
        boolean ans = (n > 100);  
        System.out.println(ans);  
    }  
}
```

xyzw

code

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int x = scn.nextInt();  
        int y = scn.nextInt();  
        int z = scn.nextInt();  
        int w = scn.nextInt();  
  
        boolean ans = ( x * y == z * w );  
  
        System.out.println(ans);  
    }  
}
```

Even or not

input

$n = 5 ;$

$n \% 2 == 0$

$$\frac{24}{2} = 0$$

$$\frac{23}{2} = 1$$

code

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int n = scn.nextInt();  
  
        boolean ans = (n % 2) == 0;  
        System.out.println(ans);  
    }  
}
```

Sum is less than 150 or not.

Code

```
public class Solution {  
  
    public static void main(String[] args) {  
        Scanner scn = new Scanner(System.in);  
        int x = scn.nextInt();  
        int y = scn.nextInt();  
        int z = scn.nextInt();  
  
        int sum = (x + y + z);  
        boolean ans = ( sum < 150 );  
        System.out.println(ans);  
    }  
}
```

AND , OR , NOT operators

⇒ AND (if atleast one is false
then result will be false)

&&

A	B	C
T	T	T
T	F	F
F	T	F
F	F	F

⇒ NOT

!

A	C
T	F
F	T

⇒ OR (if atleast one is true
then result will be true)

||

A	B	C
T	T	T
T	F	T
F	T	T
F	F	F

Questions :-

- 1) boolean ans = $3 > 2 \ \&\& \ 14 > 3$ true
- 2) boolean ans = $40 > 3 \ \&\& \ 40 > 50$ false
- 3) boolean ans = $40 >= 40 \ || \ 50 >= 2 * 5$ true
- 4) boolean ans = $(2 * 3 == 4 \ \&\& \ 6 * 4 == 9) \ || \ 4 > 2$ true
- 5) boolean ans = $(4 > 5) \ \&\& \ (3 > 5 \ \&\& \ 80 == 2 * 40)$ false
- 6) boolean ans = $!(2 * 5 != 10)$ true

Note:-

int a = 7 ;

✓ a = a + 2 ;

✓ a = a - 5 ;

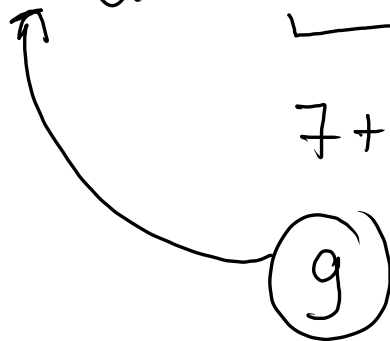
✓ a += 2 ;

✓ a -= 5 ;

a = 7 , a = 9

a = a + 2 ;

7 + 2



Ques Print final value of a, b and c.

int a=5;

b = a++;

c = b++;

a = ++b;

b = ++c;

c = ++a;

a = b++;

b = ++c;

c = a++;

a = 6 , b = 5

b = 6 c = 5

a = 7 b = 7

b = 6 c = 6

c = 8 a = 8

a = 6 b = 7

b = 9 c = 9

c = 6 a = 7

a = 7 , b = 9 , c = 6

1) post inc or dec. means
inc. or dec. will happen
later

2) pre inc or dec. means
inc. or dec. will happen
first

Ques Print a, b, c

```
int a, b, c
```

```
a = 5
```

```
b = ++a;
```

```
c = ++b;
```

```
a = b++;
```

```
b = c++;
```

```
c = ++a;
```

```
a += b;
```

```
b -= c;
```

```
c += b;
```

```
b--;
```

```
a++;
```

```
c--;
```