

## Flow Control - Easy level questions

① 

```
int x = 5;
int y = 3;
if (x > y) {
    s.o.p(x+y);
} else {
    s.o.p(x-y);
}
```

Output :-  
8

② 

```
int i = 1;
while (i <= 3) {
    s.o.p(i * 2);
    i++;
}
```

Output :-  
2  
4  
6

③ 

```
int num = 15;
if (num % 2 == 0) {
    s.o.p("Even");
} else {
    if (num > 10) {
        s.o.p("Odd and Greater than 10");
    } else {
        s.o.p("Odd and Less than or equal to 10");
    }
}
```

Output :-

Odd and Greater than 10

(1)  $\text{for}(\text{int } j = 2; j \leq 6; j++)\{$   
 $\quad \text{s.o.p}(j);$   
 $\}$

output :-

2  
4  
6

(5)  $\text{int } a = 4;$   
 $\text{int } b = 7;$   
 $\text{do } \{$   
 $\quad \text{s.o.p}(a);$   
 $\quad a++;$   
 $\} \text{while}(a < b);$

output :-

4  
6

(6)  $\text{int count} = 0;$   
 $\text{for}(\text{int } k = 10; k >= 5; k--)\{$   
 $\quad \text{if}(k \% 2 == 0)\{$   
 $\quad \quad \text{count}++;$   
 $\quad \}$   
 $\}$   
 $\text{s.o.p}(\text{count});$

output :-  
3

K	count
10	1
9	<del>1</del>
8	2
7	
6	3
5	
4	X

(7)  $\text{int } p = 1;$   
 $\text{while}(p < 10)\{$   
 $\quad \text{if}(p \% 3 == 0)\{$   
 $\quad \quad \text{s.o.p}(p);$   
 $\quad \}$   
 $\quad p++;$   
 $\}$

output :-

~~1~~ 3  
9

(8)  $\text{int score} = 85;$   
 $\text{if}(\text{score} >= 90)\{$   
 $\quad \text{s.o.p}("A");$   
 $\}$

```

} else if (score >= 80) {
    s.o.p("B");
} else if (score >= 70) {
    s.o.p("C");
} else {
    s.o.p("F");
}

```

output :-  
B

```

⑨ int result = 0;
for (int m = 1; m <= 4; m++) {
    if (m == 2) {
        continue;
    }
    result += m;
}
s.o.p(result);

```

output : —  
8

m	result
1	1
2	
3	4
4	8

```

⑩ int x = 8;
    int y = 3;
    do {
        if (x > y) {
            s.o.p(x/y);
            x -= 3;
        } else {
            s.o.p(x+y);
        }
        y++;
    } while (x > y);

```

output : —

~~8 14~~  
x = 5  
y = 5  
2  
1

```

(11) int n = 12;
    if (n % 4 == 0) {
        s.o.p(n/4);
    } else {
        s.o.p(n*4);
    }

```

Output :-  
3

```

(12) int sum = 0;
    for (int i = 1; i <= 3; i++) {
        sum += i;
    }
    s.o.p(sum);

```

Output :-  
6

```

(13) int age = 16;
    if (age >= 18) {
        s.o.p("Adult");
    } else {
        if (age >= 13) {
            s.o.p("Teen");
        } else {
            s.o.p("Child");
        }
    }

```

Output :-  
Teen

```

(14) int val = 20;
    while (val > 15) {
        s.o.p(val);
        val -= 3;
    }

```

Output :-  
20  
17

```

(15) int x = 2;
    int y = 5;
    do {
        s.o.p(x * y);
        x++;
    }

```

Output :-  
x = 2 y = 5  
10  
15

```
} while (x <= 3);
```

```
(16) int x = 2; boolean flag = true;
      int y = 5; int counter = 0;
      do {
        while (flag && counter < 3) {
          s.o.p(counter);
          counter++;
          if (counter == 2) {
            flag = false;
          }
        }
      }
```

Output:—  
0  
1  
2

counter = 0, 1, 2, 3

```
(17) For (int t = 5; t > 0; t--) {
      if (t == 3) {
        continue;
      }
      s.o.p(t * t);
    }
```

Output:—

t = 5	25
4	16
3	4
2	1
1	
0	

```
(18) int grade = 75;
      char letter;
      if (grade >= 80) {
        letter = 'A';
      } else {
        letter = 'C';
      }
      s.o.p(letter);
```

Output:—  
67

```

19) int num1 = 6;
    int num2 = 4;
    int result = 0;
    for( int i = 0; i < 2; i++ ) {
        if ( num1 > num2 ) {
            result += num1;
        } else {
            result += num2;
        }
    }
    System.out.println(result);

```

Output :-

6  
12

```

20) int a = 1;
    int b = 10;
    do {
        if ( a * 2 == 1 ) {
            s.o.p(a);
        }
        a += 3;
    } while ( a < b );

```

Output :-

~~a = 1~~ ~~4~~ ~~7~~ 10  
b = 10;

1  
7