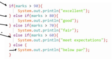


```java
if(marks > 90){
    System.out.println("excellent");
} else if(marks > 80){
    System.out.println("good");
} else if(marks > 70){
    System.out.println("fair");
} else if(marks > 60){
    System.out.println("meet expectations");
} else {
    System.out.println("below par");
}
```

95 excellent
85 good
75 fair
65 meet —
55 below par

odd-even
3k
questions

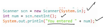
Repitions (loops)

i 1 2 3 4 5 6

1 to 5

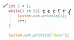
```
i = 1;
while (i ≤ 5) {  t t t t t f
    Print i
    i++
}
Print done
```

1
2
3
4
5
done



```java
Scanner scn = new Scanner(System.in);
int num = scn.nextInt();
System.out.println("You entered " + num);
```

num 10
scn
Output You 10
Input 10



```java
int i = 1;
while(i <= 5){
    System.out.println(i);
    i++;
}

System.out.println("done");
```

Stack
i 1 2 3 4 5 6

Console
1
2
3
4
5
done

O/p ✓
var ✓
if-else, if-elseif ✓
while ✓
I/p

I/p
keyboard → RAM

Scanner scn = new Scanner(System.in); ✓
int i = scn.nextInt(); ✓

i 10
scn
10

Conditions, Loops, I/p, 1st Q

odd-even

```
3k
if(m % 3 == 0) {
    → 3k
} else {
    if(m % 3 == 1) {
        → 3k + 1
    } else {
        → 3k + 2
    }
}
```

```
if(m % 3 == 0) {
    → 3k
} else if(m % 3 == 1) {
    → 3k + 1
} else {
    → 3k + 2
}
```

→ Pen & Paper
Doubt + Chat

→ fjp1@pepcoding.com
Recording Notes Codes

→ Mailing List
→ NADOS Signup
→ Form
643 + 287

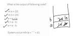
→ Main feed + FJP1 feed
→ Doubts
→ Schedule

→ Recap
Print
Variables

→ Homework

→ Conditions, Repitions, I/p
→ 1st Q
→ 2 Q
3 questions

O/p ✓
I/p
var ✓
Conditions
Repitions

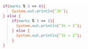


What is the output of following code?

```java
int a = 10;
int b = 20;
a = a + b;
b = a - b;
a = a - b;

System.out.println(a + " " + b);
```

b 20 10
a 10 30
R.H.S = 20
L.H.S
10 30



```java
if(marks % 3 == 0){
    System.out.println("3k");
} else {
    if(marks % 3 == 1){
        System.out.println("3k + 1");
    } else {
        System.out.println("3k + 2");
    }
}
```

Conditional

```
✓ —— L1
✓ —— L2
if( —— ) {
    —— L3
    —— L4
} else {
✓   —— L5
✓   —— L6
}
✓ —— L7
✓ —— L8
```

L1 L1
L2 L2
L3 L5
L4 L6
L7 L7
L8 L8

+
-
*
/ 16 / 3 = 5
% 16 % 3 = 1

3) 16 (5
15
1

2) 21 (10
20
1 — odd

2) 18 (9
18
0 — even

Condition

```
if(marks % 2 == 0) {
    —— even
} else {
    —— odd
}
```

18 = 3·6
12 = 3·4
19 = 3·6 + 1
7 = 3·2 + 1
20 = 3·6 + 2
14 = 3·4 + 2

3k 18, 12
3k+1 19, 7
3k+2 20, 14

6 7 8
3k 3k+1 3k+2
Print ✓
Variables ✓
HW ✓
Conditions — even 3k

Conditions
Loops
I/p
1st Q

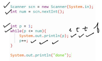
287
Signed

10 minutes

1 capital
1 small
1 special
1 number
≥ 8

bhavesh.bansal@pepcoding.com

→ Pepcoding.com ✓
→ NADOS ✓
→ Login ✓
→ P.no. Submit
Name.
Email.
Pwd.



```java
Scanner scn = new Scanner(System.in);
int num = scn.nextInt();


int p = 1;
while(p <= num){
    System.out.println(p);
    p++;
}

System.out.println("done");
```

t t t f

p 1 2 3 4
num 3
scn

Input	Output
3	1 2 3 done

O/p — println
I/p — Scanner
var
if-else
loops

HW → CW
1 is odd
2 is even
3 is odd
4 is even
5 is odd
6 is even
7 is odd

Run

787 + 136
fjp1@ → ✓
NADOS → x
FJP1 → x

→ Pen & paper
→ Recording ✓
→ Notes ✓
→ Codes — x
→ mailing list
→ Link for zoom

mailing list
nados signup
fjp1
→ Google form
8 p.m. [via zoom]

Doubts? → FJP1 feed
Schedule? → " "

1 is odd
2 is even
3 is odd
4 is even

Take input from user
Print counting with odd-even
→ I/p, O/p, loops, if-else, variables.