Lecture 1

Monday, June 23, 2025 10:00 AM

logistics → ide → eclipse (link) — ①
jre → jdk — ②

Raising hand.
↳ Rat on chat.
↳ unmute.

whatsapp (links, announcements, format).
'TA'A' → 2
Kachi, Manu.
(Intro-bot)

slack → doubt → ch_lb / live
hackerblocks → Questions of assignments.
GitHub → Code
Online Recordings → online.codingblocks.com.

Print on Console. (Hello world).
Variables
if - else - if.
Loops
Functions

① Hello World
Coding Blocks Bye
② Coding ---- Blocks.

```
public static void main(String[] args){
    System.out.println("Hello World");
    System.out.print("Coding Blocks");
    System.out.println("Bye");
    System.out.print("Coding");
    System.out.print("Blocks");
    System.out.print("Hello World");
    System.out.print("Hello World");
}
```

Hello World
Coding Blocks Bye
Hello World

Hello World

"\n" (\t) → tab.

Simple Interest

```
public static void main(String[] args){
    int p = 2000; //initialisation
    int r = 10;
    int t = 1.
    int si = (p * r * t) / 100;
    System.out.println(si);
    System.out.println("Hi")
}
```

variables

// 100

Memory (RAM).

2000	10	1	200
p	r	t	si

#Holder.

$si = \frac{p \times r \times t}{100}$

r: 10%

t: 1

si: (p * r * t) / 100

si = (1000 × 10 × 1) / 100

si = 100.

② public static void main(String[] args){

```
    int a = 10;
    int b = 5;
    int c = 20;
    if(a>b && a>c){
        System.out.print("A is largest");
    } else {
        if(b>10 && b>a && b>c){
            Syso("B is largest");
        } else {
            Syso("C is largest")
        }
    }
}
```

both conditions

10	5	20	
a	b	c	

a b c
10, 5, 20.

largest of 3 numbers.

10, 10, 5.

if. and. yes → A is largest.
a>b && a>c

else.

b>a && b>c — Yes → B is largest.

else → No

C is largest.

if (true) {

} else {

if ( ) {

} else {

}

③ Print First N Natural Numbers; //n=1000, i++; i=i+1; i=i+1; i=i+1;

```
public static void main(String[] args){
    for(int i=1; i<=5; i++){
        Syso(i);
    }
}
```

for
while
do-while

1	2	3	4	5

5<=5

1
2
3
4
5

```
public static void main(String[] args){
    int n = 5;
    int i = 1;
    while (i<=n){
        Syso(i);
        i++;
    }
}
```

6<=5

6	5
i	n

1
2
3
4
5

```
public static void main(String[] args){
    int n = 5
    int i = 1
    do {
        Syso(i);
        i++;
    } while (i<=5);
}
```

6<=5 X

6	5
i	n

1
2
3
4
5

```
int i = 10
do {
    Syso(i);
} while (i<=5);
```

10<=5

10

Q → Sum of first N natural numbers?

```
int i = 1;
int n = 5;
int sum = 0;
while (i<=n){
    sum = sum + i;
    i++;
}
Syso(sum);
```

6	5	36
i	n	sum

1+2 → 3+4+5

3+3

6+4

10+5

15

```
int i = 1;
do {
    Syso(i);
    i++;
} while (i<=5);
```

once

1 3
2

A and B → 13

Q → A and B → n%m == B%m → gcd →

H.W.B → Q → Whether a number is Prime Or Not?

int n = 7 → Prime
= 13 → Prime
= 10 → Not Prime.
= 2 → Prime.

next → class → User friendly
Questions
Patterns
hackerblocks → Assignment.

90 580

M