

24/11/22 →

loop 1 change.
(Doubt).

25/11/22 → Test. (_)

✓ Not Attempted.

✓ Questions.

Previous.

↳ String.

Today

↳ String.

↳ for. (loops).

$$\begin{aligned} 'a' &\rightarrow 'A' \\ 'A' &\rightarrow 'a' \end{aligned} \quad \checkmark$$

$$\checkmark \quad '7' - '0' = 7$$

$$ch - '0' = 7$$

$$\begin{array}{cccccc} '7' - '0' & 1 & & & & 6 \\ A & B & C & D & E & F \end{array}$$

$$\checkmark \quad 'A' \rightarrow 65$$

$$'F' \rightarrow 70$$

$$'a' \rightarrow 97$$

$$'f' \rightarrow 102$$

$$('F' - 'A') = ('f' - 'a')$$

$$70 - 65 = 5 = 102 - 97$$

$$('D' - 'A') = ('d' - 'a')$$

$$CH - 'A' = ch - 'a'$$

$$CH = ch - 'a' + 'A'$$

$$ch = CH - 'A' + 'a'$$

A	65	--1
B	66	--2
C	67	--3
D	68	--4
E	69	
F	70	

$$('D' - 'A') = 'd' - 'a'$$

$$68 - 65 = 100 - 97 = 3$$

$$'E' - 'A' = 'e' - 'a'$$

$$CH - 'A' = ch - 'a'$$

1...	a	97
2...	b	98
3...	c	99
4...	d	100
	e	101
	f	102

$$CH = ('a' - 'A' + 'A')$$

$$CH = CH - 'A' + 'a'$$

$$\begin{array}{l} \text{Rec.} \\ \underline{d} \rightarrow D \\ \text{given} \end{array}$$

$$\begin{aligned} CH &= 'd' - 'a' + 'A' \\ &= 100 - 97 + 65 \\ &= 3 + 65 \\ &= 68 \quad (\text{char}) \end{aligned}$$

$$'F' \rightarrow 'f'$$

$$\begin{aligned} ch &= 70 - 65 + 97 \\ &= 5 + 97 \\ &= 102 \quad (\text{char}) \end{aligned}$$

$$ch - 32$$

```
public static void main(String[] args) {
    /* Enter your code here. Read input from
    Scanner scn = new Scanner(System.in);
    char ip = scn.next().charAt(0);

    if(ip >= 'a' && ip <= 'z'){
        //lowercase --> uppercase
        char CH = (char)(ip - 'a' + 'A');
        System.out.println(CH);
    }
    else{
        //uppercase --> lowercase
        char ch = (char)(ip - 'A' + 'a');
        System.out.println(ch);
    }
}
```

$$\begin{array}{l} E - A = 4 \\ D - A = 3 \\ F - A = 5 \end{array}$$

$$CH - 'A' = ch - a$$

$$x - A = y - a$$

$$'D' - 'A' = 'd' - 'a'$$

$$CH - 'A' = ch - 'a'$$

Concatenation → combining strings.

"Hello" + "Friends" = "HelloFriends"

```
public static void main(String[] args) {  
    Scanner scn = new Scanner(System.in);  
    String A = scn.nextLine();  
    String B = scn.nextLine();  
  
    String C = A + B;  
    System.out.println(C);  
}
```

string concatenate 2

3 mins.

```
Scanner scn = new Scanner(System.in);
String A = scn.nextLine();
String B = scn.nextLine();

if( A.length() > B.length()){
    // BAB
    System.out.println(B+A+B);
}else{
    //ABA
    System.out.println(A+B+A);
}
```

Loops:

Mistake:

I am sorry → I time.
I am sorry

X 1000

if (cond)
{
body
}

for:

for (int count=1; count <= 10; count++)
{
body ... of for loop.
}

for (A ; B ; D)
{
C
}

A → initialization
B → condition
C → Body ... write ur code
D → increase/decrease (change the value)

for (int count=1; count <= 10; count++)
{
print(count);
}

for (A; B; D)
{
C
}

for (int i=1; i <= 3; i++)
{
system.out.println(i);
}

init
condition
true
A → B → C → D → (B)

init
(= 1) 2 3
condition
i <= 3
1 <= 3
2 <= 3
3 <= 3
4 <= 3

1
2
3