A - 65

B - 67

C - 68

D - 69

:

$S_1 = 'at'$

$S_2 = 'am'$

$$S_1 - S_2 = \begin{array}{c} at \\ -am \end{array} = \begin{array}{c} 97 \\ 97 \end{array} \quad \begin{array}{c} 74 \\ 6D \end{array}$$

$$\overline{0}$$

a b p

$$\frac{a\ b\ m}{0\ 0\ \checkmark}$$

a - 97

b - 98

c - 99

d - 100

:

$S_1 = 'a'$

$S_2 = 'c'$

$S_1 - S_2 = a - c = 97 - 99 = -2$

$S_1 = 'at'$

$S_2 = 'dt'$

$$S_1 - S_2 = \begin{array}{c} a\ t \\ -d\ t \end{array} \qquad \begin{array}{c} 97 \\ 100 \\ \hline -3 \end{array}$$

trim() — removes leading & trailing spaces

S =" Vipul Baliyan   "

s.trim() → // "Vipul Baliyan"

arr.length = 4

```java
    {
        Scanner sc = new Scanner(System.in);
        int num_of_words = sc.nextInt(); // 4
        String arr[] = new String[num_of_words];
//      System.out.println(num_of_words);
        for(int i=0;i<arr.length;i++)
        {
            arr[i] = sc.next();
        }

        for(int i=0;i<arr.length;i++)
        {
            char first_char = arr[i].charAt(0);
            String fc = "" + first_char;
            fc = fc.toUpperCase();
            // System.out.println(fc);
            String rem_str = arr[i].substring(1);
            // System.out.println(rem_str);
            arr[i] = fc.concat(rem_str);
        }

        for(int i=0;i<arr.length;i++)
        {
            System.out.print(arr[i]+ " ");
        }
    }
```

Handwritten annotations:

arr →

0	1	2	3
ram ~~Ram~~	~~shyam~~ Shyam	gita	sita

4

i=0

arr[0] = ram (012)

char first_char = 'r' 's'
String fc = 'r' 'R' 's' 'S'
rem_str = 'am' 'hyam'
arr[0] = 'Ram' 'Shyam'

Ln 154, Col 10   Spaces: 4   UTF-8   LF   { } Java