Programming lang. → Java.

- Mobile
- Desktop.
- Web App.
- Servers.

} Application.

Syntax.

DSA

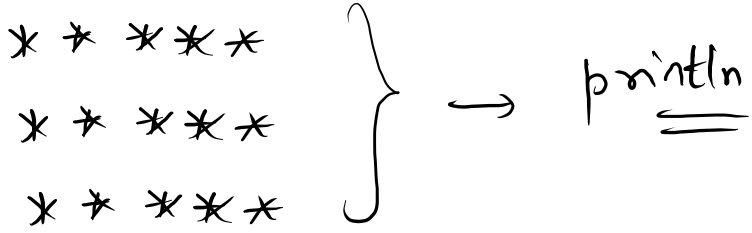
print
println.

print star pattern-2

Problem | Submissions | Leaderboard

In this challenge, you have to print the star pattern given below.

```
*****
*****
*****
```



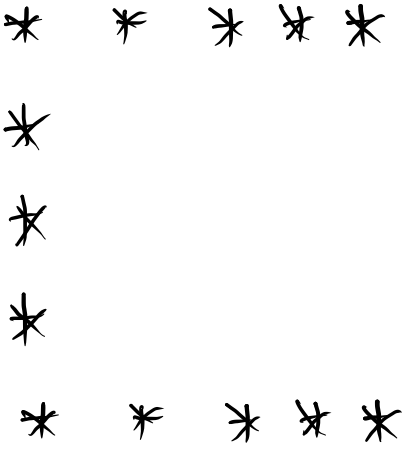

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        System.out.println("*****");
        System.out.println("*****");
        System.out.println("*****");
    }
}
```

print star pattern-3

Problem | Submissions | Leaderboard

In this clallenge, you have to print the star pattern given below.

```
*****
*
*
*
*****
```



```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        System.out.println("*****");
        System.out.println("*");
        System.out.println("*");
        System.out.println("*");
        System.out.println("*****");
    }
}
```

Variables.

$x^2 + 2y = 6$

x , y $\Longrightarrow$ variables. } maths.

value can change / vary.

Data / information.

→ D.S.

age = 52 → value

↑ name of variable.

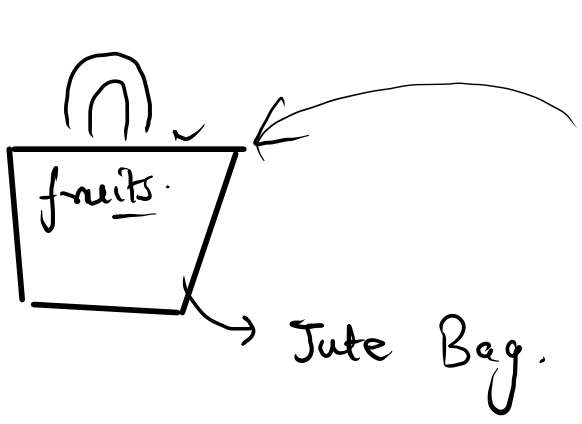
x = 52

name = Aman

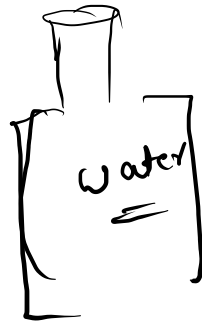
y = Aman

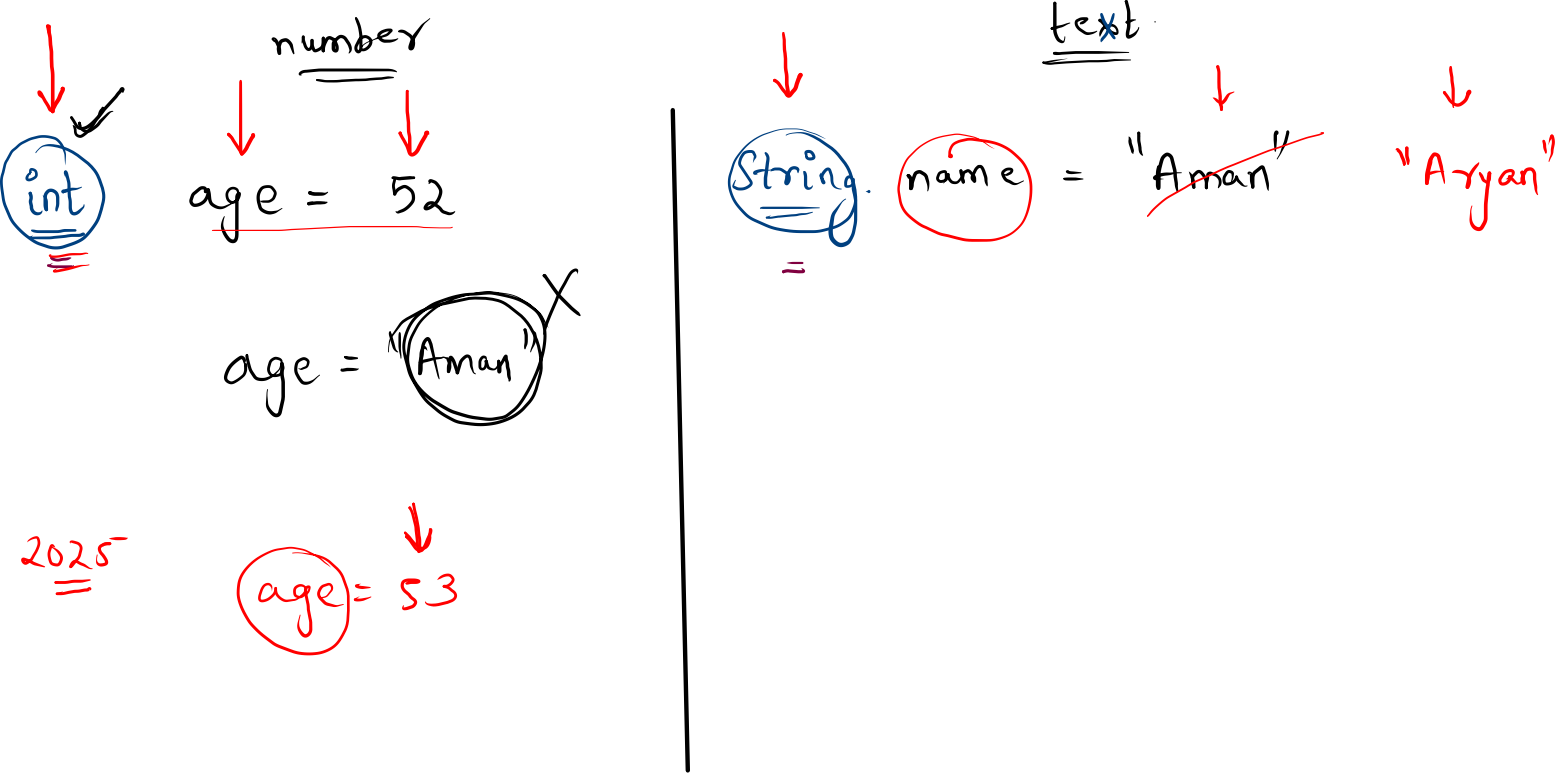
Market.

buy items.



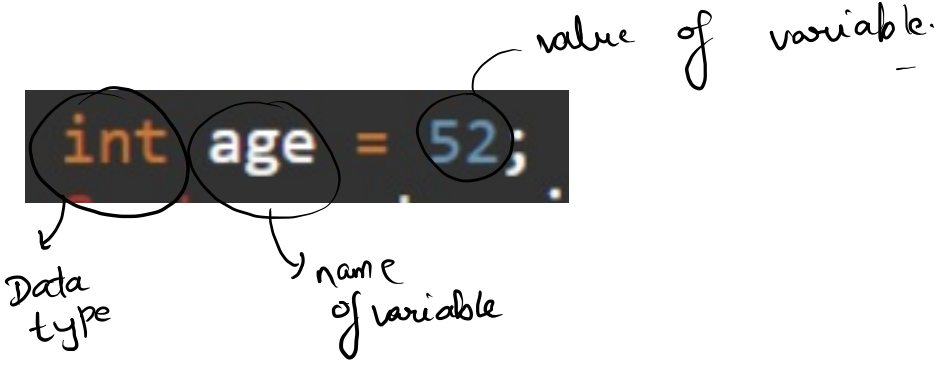
water.



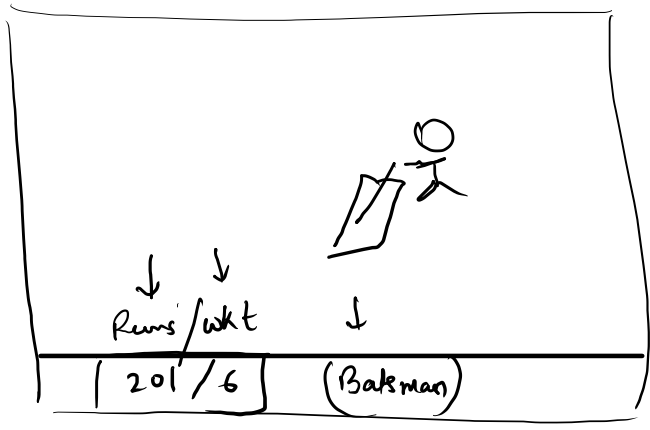

number
text
int
age = 52
String
name = "Aman"
"Aryan"
age = "Aman"
X
2025
age = 53

```java
public class Main
{
    public static void main(String[] args) {
        int age = 52;
        System.out.println("age");
        System.out.println(age);

    }
}
```

int → integer



```java
public class Main
{
    public static void main(String[] args) {
        int age = 52;
        System.out.println(age);

        age = 100;
        System.out.println(age);

    }
}
```



Maths.

add, substraction., mul, divi..

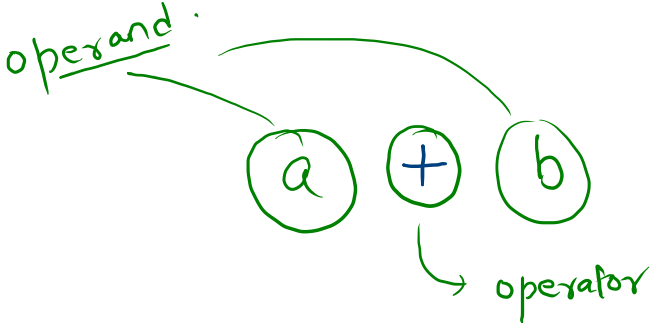
operations.

Arithemetic.

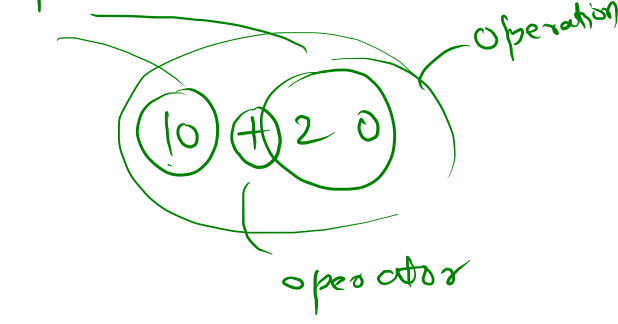
+ - * / ...

operand.

operand.

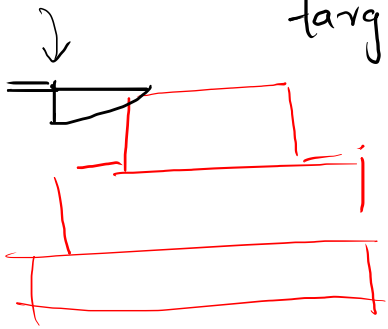


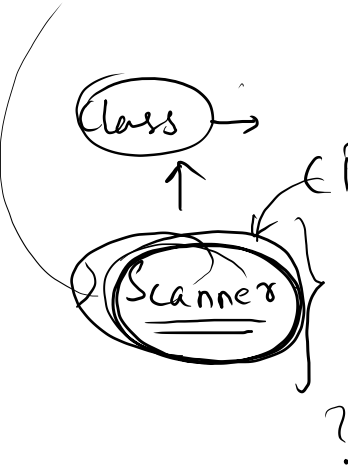
operand.



Input from User.

target → cut cake.

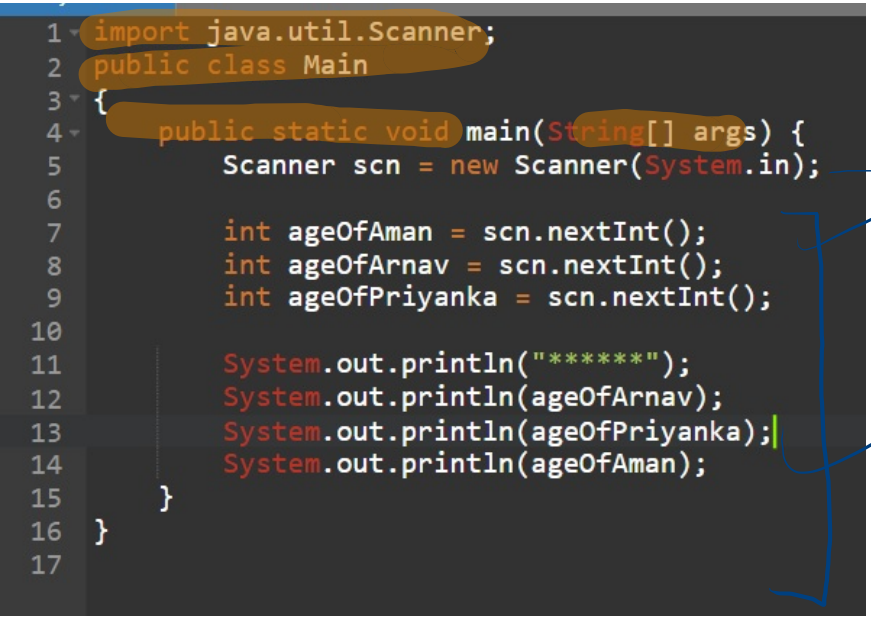




provided by Java that will help you to take input.

?

Abstraction



```java
import java.util.Scanner;
public class Main
{
    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int ageOfAman = scn.nextInt();
        int ageOfArnav = scn.nextInt();
        int ageOfPriyanka = scn.nextInt();

        System.out.println("******");
        System.out.println(ageOfArnav);
        System.out.println(ageOfPriyanka);
        System.out.println(ageOfAman);
    }
}
```

Sum and Difference of x and y

Problem | Submissions | Leaderboard | Discussions

You will be given two integers x and y. You have to print the sum of x and y in the first line, and the difference of x and y in the second line.

First integer input should be stored in x, Second integer input should be stored in y.

Input Format

In the first line the value of x will be given and in the second line the value of y will be given.

Constraints

Only integers will be given as input.

Output Format

Sum of x and y will be printed in the first line i.e x+y Difference of x and y will be printed in the second line i.e x-y

Sample Input 0

```
40
10
```

Sample Output 0

```
50
30
```

50 ✓
30

Algo.
1. i/p
2. sum
3. diff

take i/p *

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int x = scn.nextInt();
        int y = scn.nextInt();

        System.out.println(x + y);
        System.out.println(x - y);
    }
}
```

40 } i/p
10 }

50 } sum
30 } diff

Area and Perimeter 5

Problem | Submissions | Leaderboard | Discussions

Take length and breadth of the rectangle as input. And print area of the rectangle in the first line and perimeter of the rectangle in the second line.

area = l * b

perimeter = 2(l+b)

= l+l+b +b

Sample Input 0

```
10
20
```

l = 10

b = 20

Sample Output 0

```
200
60
```

l+l+b+b = 10+10+20+20 = 60

Input Format

In the first line, length of the rectangle is given as input. In the second line, breadth of the rectangle is given as input.

l

b

Constraints

Inputs will be given in integer format (1<= length <= 2^31 - 1) (1 <= breadth <= 2^31 - 1)

$1 \le length \le 2^{31} - 1$

$1 \le breadth \le 2^{31} - 1$

Output Format

In the first line Area of the rectangle should be printed. In the second line perimeter of the rectangle should be printed.

area

peri

Area and Perimeter 5

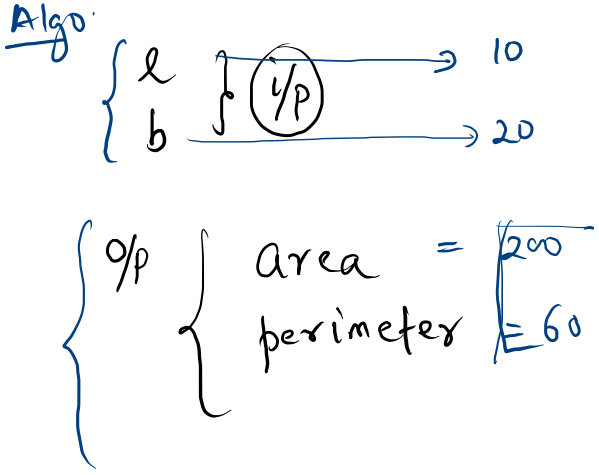
Problem | Submissions | Leaderboard | Discussions

Take length and breadth of the rectangle as input. And print area of the rectangle in the first line and perimeter of the rectangle in the second line.

area = l * b

perimeter = 2(l + b)

= l + l + b + b



Sample Input 0

```
10
20
```

Sample Output 0

```
200
60
```

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int l = scn.nextInt();
        int b = scn.nextInt();

        //area
        System.out.println(l*b);
        //perimeter
        System.out.println(l+l+b+b);

    }
}
```

10
20

length

l → 10
b → 20

10 * 20 = 200

10 + 10 + 20 + 20 = 60

x → 10 | 20
y → 20 | 10

x - y
-10 | 10