Methods (functions)

Write the definition

\( f : \mathbb{N} \times \mathbb{N} \rightarrow \mathbb{N} \)
\( f(x, y) = 3x - y \)

\( g(x, y) = x + 2y \)

\( h(x) = x^2 \)

\( f(2, 5) = 3 \cdot 2 - 5 = 1 \)
\( f(5, 2) = 15 - 2 = 13 \)
\( f(3, 3) + f(5, 2) \)
\( 6 + 13 = \)
\( g(2, 5) = 2 + 2 \cdot 5 = 12 \)

Calling methods

```java
public static int f(int x, int y) {
    int res;
    res = 3 * x - y;
    return res;
}
```

```java
System.out.println(f(2, 5));
Math.min(3, 5)
```

```java
System.out.println(10 - f(2, 5));
Math.min(3, 10)
```

```java
System.out.println(h(2));
```
Method with mixed data. That

Write a method that takes [as arguments] a string, `cheer` and a number, `repetitions`, and prints `cheer` as many times as given in `repetitions` — `N` times.
public static void main(String[] args) {
    Scanner kb = new Scanner(System.in);
    int n1, n2, c, val1, val2;
    n1 = kb.nextInt(); // 1/2
    n2 = kb.nextInt(); // 1/5
    val1 = fEx(3, n1);
    wait
    S.o. println("first answer is "+val1);
    S.o. println(fEx(n1, n2));
    wait
    S.o. println("Bye");
}

} // end of main

public static int fEx(int x, int y) {
    int n2 = 10;
    int res;
    res = 3*x - y;
    fEx(res, n2);
    return res;
}

} // end of fEx method