

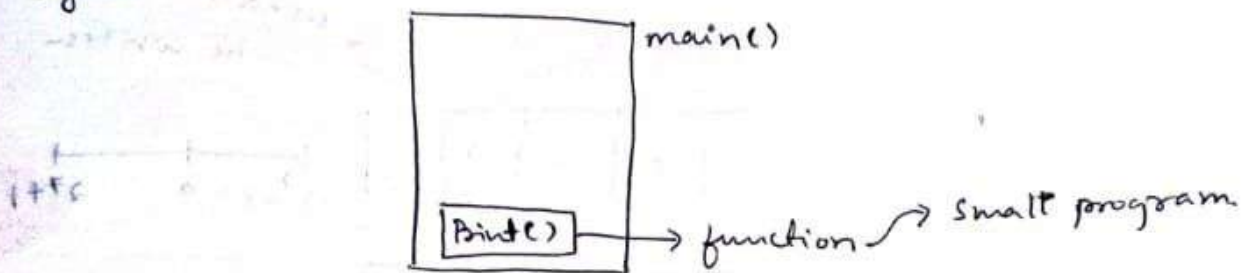
Functions

PART-1

* In Computer Science, functions are main building blocks of Industry

1. What is a function?

* Same kind of task you should repeat again and again



"small, precise, understandable"

2. Why functions?

- * Code reusability. (Time save, money)
- * Readability.

3. Function Syntax.

<Return Type> functionName (input arguments)

(1)

(2)

(3)

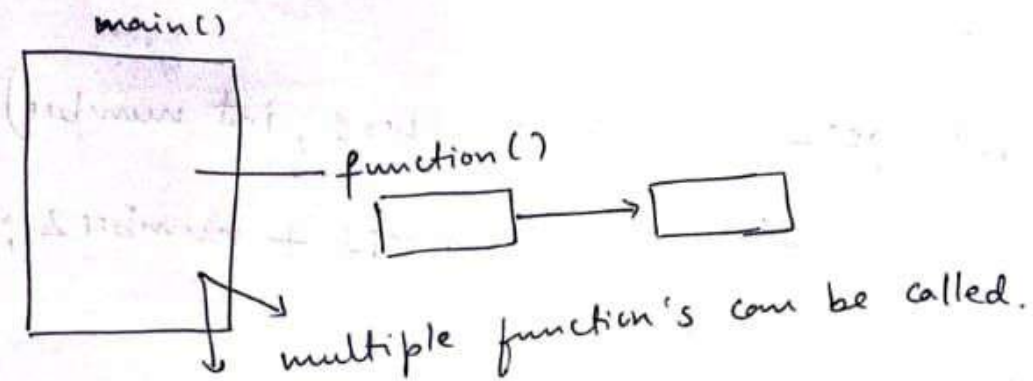
x

x

void functionName()

Example:

- ① `int get_Sum (int number1, int number2)`
- ② `Void print (string message)`
- ③ `Void likeMessage (string message-ID)`



* Depends on RAM size

4. Difference between

- * Function Declaration
 - * Function Definition
 - * Function Invocation / Call
- The person who is writing the function will do it.

① Declare: you are saying to the compiler (or) Interpreter that I written a code

- * It's name
- * It's input arguments
- * It's giving the o/p like this

Providing the information for compiler (or) Interpreter

② Definition: actual code will be written for the particular job

③ Invocation / calling the function: Invoke the written function from other function (or) in the main function

Syntax of above 3 — Declare
/ \
Call Defination

① Declaration

```
int get_Sum (int number1, int number2);
```

② Defination

```
int get_Sum (int number1, int number2) {  
    int sum = number1 + number2;  
    return sum;  
}
```

③ call / Invocation

```
int answer = get_Sum(10, 15);
```

5. Functions are super important for interviews

- * Give the readable name for function when they asked you to write
- * use get_Sum eg.
- * By the usage of the name itself they will judge you that you are a good programmer or not.

6. What ~~fun~~ is main function? How it is used?

* Simply try this

```
public static void main (String[] args) {  
    // start  
}
```

* What is gives means ERROR like

"Main method not found" in class classname

* Main function is the starting point of your code.

7. What are the command line argument?
8. Why python doesn't have main?

⇒ In command line

Code → Run → Hello.exe

↳ main()

↳ print()

How you give the input to main

Hello.exe Ananya Algo 365

These string's are treated as arguments for the main() function

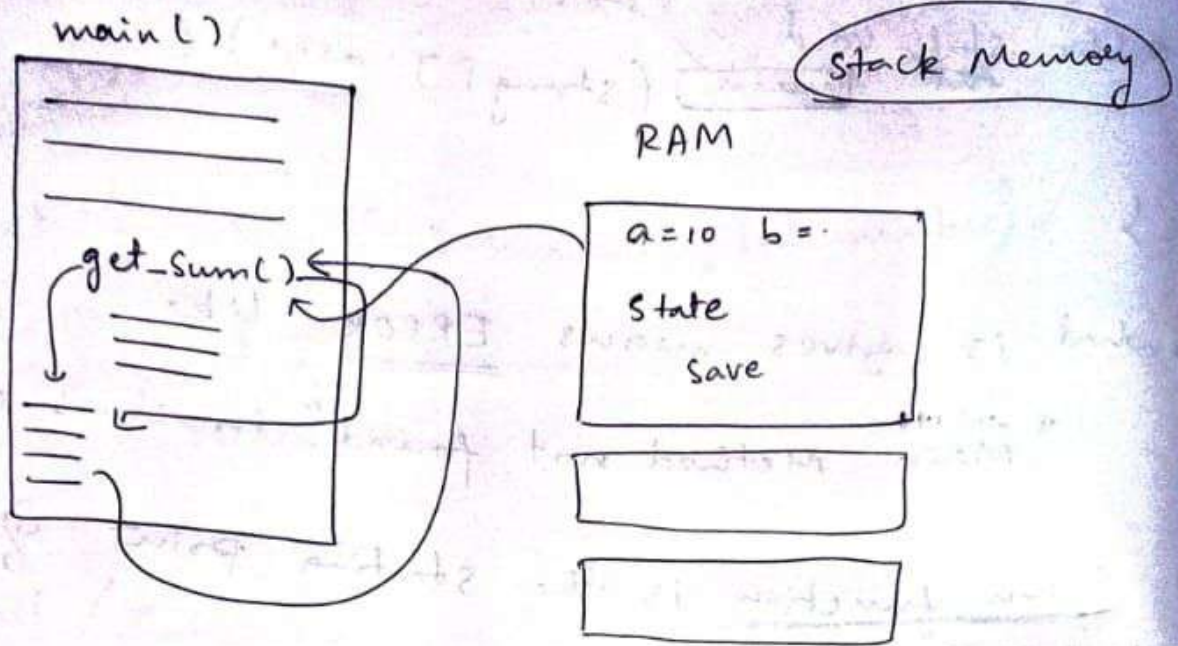
↳ Command line

Arguments

* Arguments are not compulsory

Exist code 0 (or) positive no } take Done

Exist code -1 (or) Negative no } take Not
DONE



- * If memory limit overed it give's ERROR
" memory out of Bound "

Heap memory