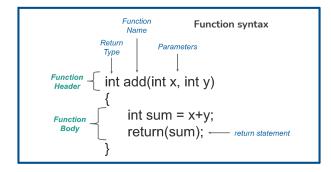
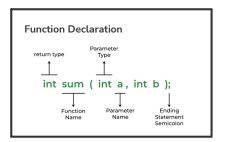
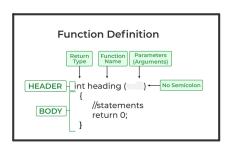
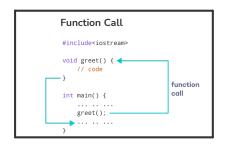
Function: A block of code or sub-program that is linked to a well-defined task is called a function.

Why use : Readability and reusability. And avoid the bulky and buggy code.









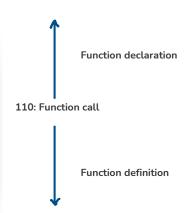
```
#include <iostream-
using namespace std;

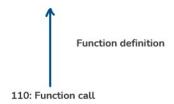
void greet(); // Function declaration

int main() {
    greet(); // Function call
    return 0;
}

void greet(){ // Function definition
    cout<<"Hit";
}

// OUTPUT: Hit</pre>
```







```
Two types of function

return
Int
Char
bool

Ltc
```

```
// Program 02: Write a function to return sum of 3 numbers
#include-instream-
using namespace std;

// Function to return sum of three number
int sum(int num1, int num2, int num3){
    int result = num1+num2+num3;
    return result;
}

// main function
int main(){
    // function call
    int finalResult=sum(2,3,4);
    cout-<*Sum is "<<finalResult</p>
return 0;
}

/*

OUTPUT:
Sum is 9
*/

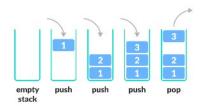
@manojofficialmj
```

```
// Program 01: Nrite a function to print sum of 3 numbers
#include
#include</
```

Function call stack

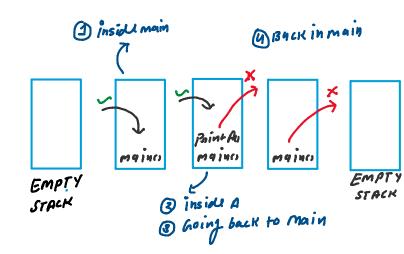
Function call stack tracking information like

- 1. function call
- 2. name
- 3. arguments/inputs
- 4. local variables
- 5. return value
- 6. which function called which function



LIFO: Last in First out





ALL PROGRAMS ARE IN GitHub REPOSITORY

CLASS PROGRAM

- 1. Write a function to print sum of 3 numbers
- 2. Write a function to return sum of 3 numbers
- 3. Find maximum of three numbers
- 4. Counting from 1 to n
- 5. Check prime or not prime number
- 6. Check number is even or odd
- 7. Sum of all numbers upto 1 to N
- 8. Sum of all even numbers upto 1 to n

HOMEWORK PROGRAM

- 1. Function to find area of circle
- 2. Function to find factorial of a number
- 3. Print all prime numbers from 1 to N
- 4. Print all digits of an integer
- 5. Creating a number using digits
- 6. Print binary representation of a decimal number
- 7. Convert KM into Miles
- 8. Convert Farenheit to Celcius
- 9. Count all set bits of a number
- 10. Check even/odd using bitwise operator

Programs Explanation are Added in HW PDF

THANKS MANUT KUM AR