.out/·exe

Executable Header Text Data BSS RO Data Symbol Table

Executable file (Binary) (Sectioned binary)

**Program - Sections** 

Executable Header

- into about executable file(size, type) type-CLI/GVI/Library
- into about remaining sections of exe (section name, start, end, size)
- add of entry point function.
- Magic number (first 200 4 bytes) -identity to file format.

Windows-Postable Executable (MZ) Linux-Executable Linking Format (8.ELF)

ext

- contains machine code of your program

Data

- all static & global variables (initialised)

BSS (Block Started by Symbol)

- all static & global variables (unintialised)

RO Data

- read only variables (string constants)

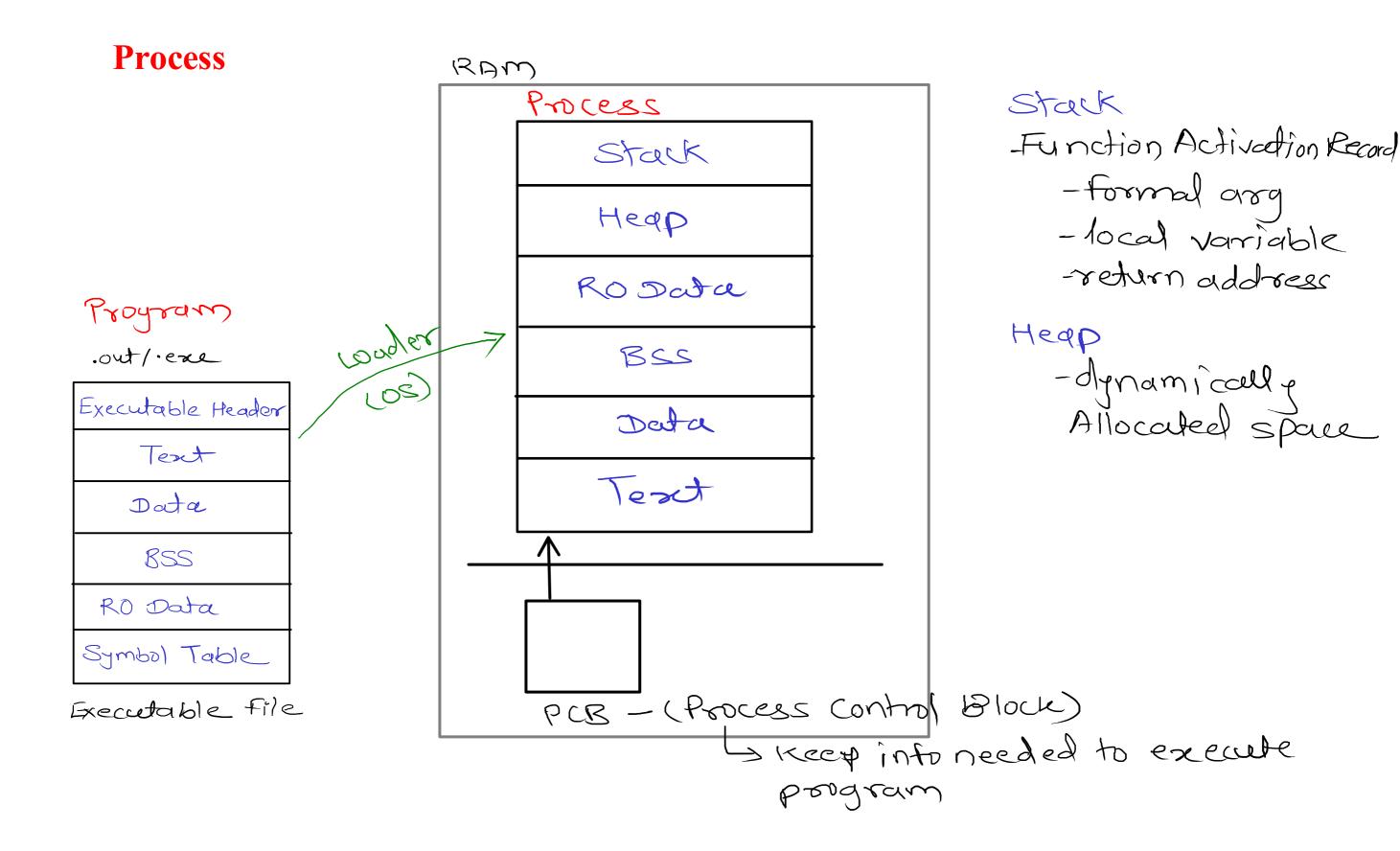
Symbol Table

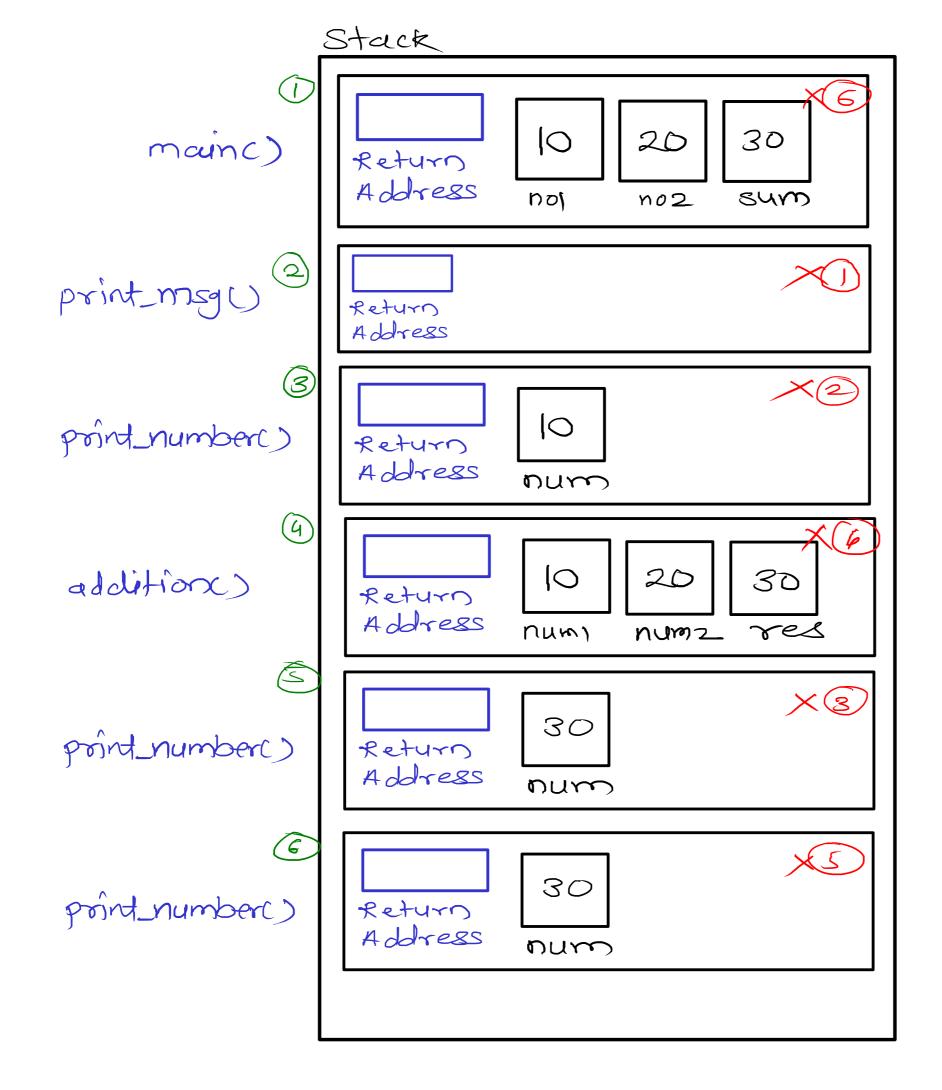
-contains info about symbols

variables - (name, size, defaut rahe, addr. sec)

Symbols

functions (name, ret type, no stype of every addr)





## **Function Calling Sequence**

```
int main(void){
    int no1 = 10, no2 = 20, sum;
    print_msg();
    print_number(no1);
    sum = addition(no1, no2);
    print_number(sum);
    return 0;
}

void print_msg(void){
    printf("This is my first function\n");
}

void print_number(int num){
    printf("number = %d\n", num);
}

int addition(int num1, int num2){
    int res = num1 + num2;
    print_number(res);
    return res;
}
```