

Functions

Function is a piece of code which performs a specific task. Grouping data is a structure and grouping instructions is a function. They are called as modules or procedures.

int main() {

Monolithic programming

func1() {
}

func2() {
}
}

func3() {
}

int main() {
func1();
func2();
func3();
}

modular programming
/ Procedure programming

different person can manage different functions.

a function can be used multiple times in multiple projects

not a good style of programming

very hard to maintain

hard to develop

```

      10    5
int add (int a, int b) {

```

Declanition of a function
function prototype
/header/signature

```

    int c;
    c = a + b;
    10 + 5 = 15
    return c;
}

```

~~actual~~ formal
parameter.

called.

```

int main () {

```

```

    int x, y, z;
    x = 10;
    y = 5;

```

parameters → actual
parameter.

```

    z = add(x, y);

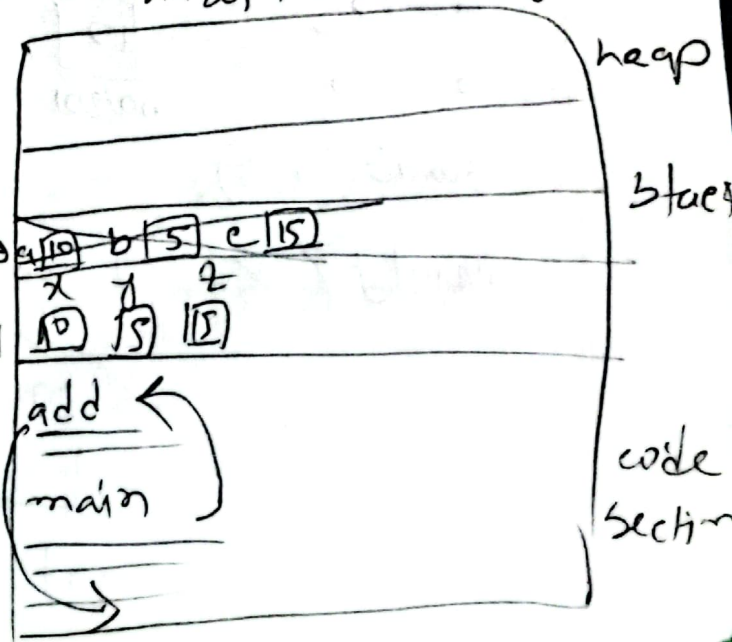
```

function calls.
main memory.

```

    printf("%d", z);
}

```



after
returning the pops
from the
stack.