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FUNCTIONS / Methods

main() {

// print sum of digits

int a = scanf("%d", &a);

int suma = 0;

while(a > 0) {

Sum = sum + a % 10;

a = a / 10;

}

sol(suma);

// print sum of digits

int b = scanf("%d", &b);

int sumb = 0;

while(b > 0) {

Sum = sum + b % 10;

b = b / 10;

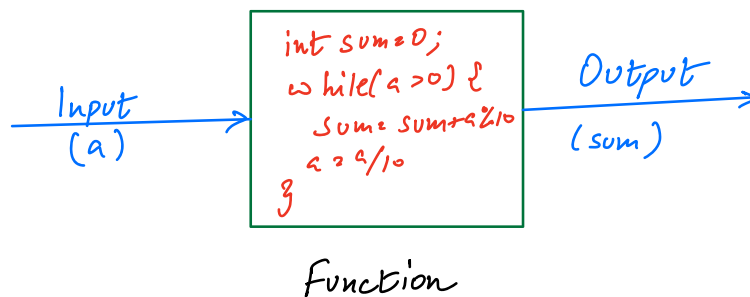
}

sol(sumb);

// write some code here

} // copy-paste again

- Long code
- Difficult maintenance
- Code Redundancy



Template

```
data_type function_name ( input ) {
    // Logic to perform
    return ans;
}
```

```
int sumOfDigits ( int a ) {
    int sum = 0;
    while( a > 0 ) {
```

```

        sum = sum + a%10;
        a = a/10;
    }
    return sum;
}

```

```

main() {

```

```

    Scanner scn = new Scanner(System.in);
    int a = scn.nextInt();
    int ans1 = sumOfDigits(a);
    SOP(ans1);

```

```

    int b = scn.nextInt();
    int ans2 = sumOfDigits(b);
    SOP(ans2)
}

```

```

}

```

- | Break | Return |
|--------------------------|----------------------|
| - Loops | - Functions |
| - Breaks the parent loop | - Exits the function |

```

int fun() {
    n = 10
    while (n > 0) {

```

```

int fun() {
    n = 10
    while (n > 0) {

```

```

        SOP(n)
        x--
        if(x==5){
            break
        }
        SOP(10);
        return 10;
    }
    O/p
    10 9 8 7 6 5 10
    return 10

```

```

        SOP(n)
        x--
        if(x==5){
            return 10;
        }
        SOP(10);
        return 10;
    }
    O/p
    10 9 8 7 6 5
    return 10

```

Q: Function to return sum of 2 integers a & b

```

int sumOfIntegers(int a, int b) {
    int sum = a + b;
    return sum;
}

```

Break 10:15

void

```
void printSum (int a, int b) {  
    SOP(a+b);  
    return;  
}
```

Code : <https://www.interviewbit.com/snippet/64257773847ab7922dd9/>