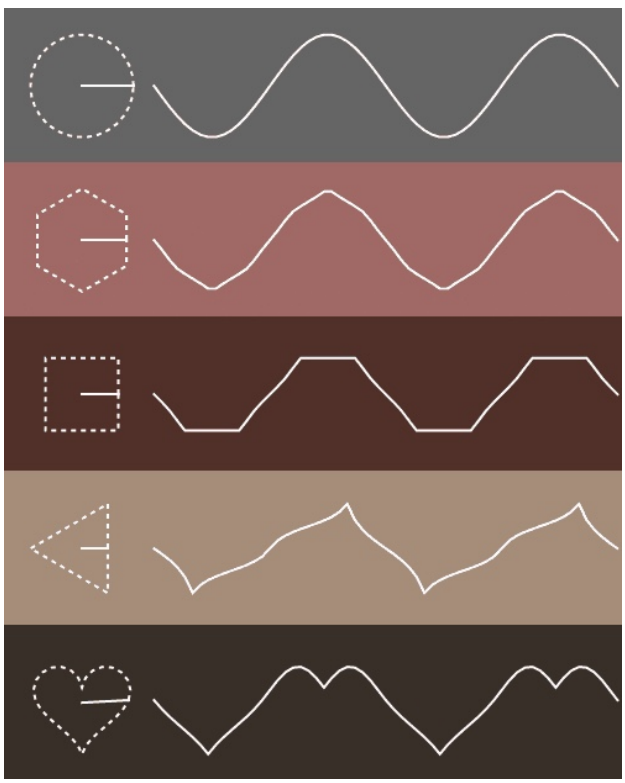
Code: https://www.scaler.com/topics/java/online-java-compiler/?snippet_slug=cbd5dce72de2cc840e7d



Remember ?

$f(x) = \sin(x)$

The dogs of the family !

Agenda

1. Learn functions
2. Scope of variables
3. return statement
4. Solve questions
5. Introduction to modules
6. Solve more problems

```
main () {
    int a1 = scn.nextInt();
    while (a1 > 0) {
        sum1 += a1 % 10;
        a1 /= 10;
    }
    sop(sum1);
    ....
    int a2 = scn.nextInt();
    while (a2 > 0) {
        sum2 += a2 % 10;
        a2 /= 10;
    }
    sop(sum2);
```

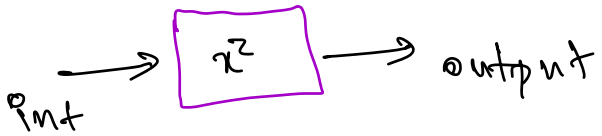
.... 10 times

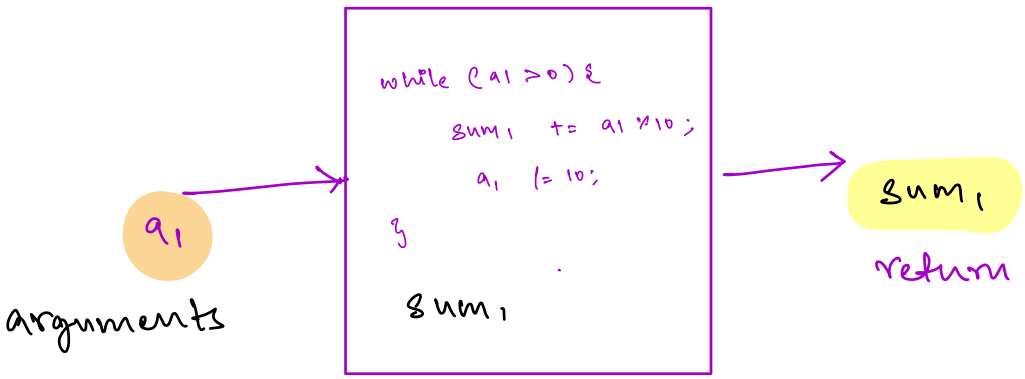
}

Problems

1. Redundancy
2. Readability
3. Maintable

$$f(x) = x^2$$





Syntax of functions

```
return type   functionName ( Input Type  Input) {
    // write logic
    return ans;
}
```

// adding two Integers.

```
int  addTwoNumbers ( int x, int y) {
    int sum = x+y;
    return sum;
}

int  returnlastdigit ( int digit) {
    int result = digit % 10;
    return result;
}
```