

Functions:

- 1) So far our program contained only 1 function – the main() function. That executes as soon as we run our program.
- 2) We can add more functions to our program:

```
public class Example
{
    public static void main(String[] args)
    {
        Example obj = new Example();    //creating object of our class first
        System.out.println("Inside main");

        obj.funA(10);

        System.out.println("Back to main");
    }

    public void funA(int num)
    {
        System.out.println("Inside funA");
        System.out.println("Printing :" + num);
    }
}
```

Calling our function
and passing value 10

void: return type, telling
this function return
nothing
funA: function name
num: input, value 10 is
copied in num

Output:

```
Inside main
Inside funA
Printing: 10
Back to main
```

Task 1.1	Write the following code on screen then hit RUN button.
Problem	Write a function named square that takes an integer n as input. It then prints the square of n. Use this function to print the square of 13.
<pre> 1 public class Task1 2 { 3 public static void main(String[] args) 4 { 5 Task1 obj = new Task1(); 6 obj.square(13); 7 } 8 9 public void square(int n) 10 { 11 int squareN = n * n; 12 System.out.println(squareN); 13 } 14 }</pre>	

Task 1.2	Use square function from Task 1.1 to print square of 11, 17 and 23.
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Expected Output

121 289 529

Task 2	Copy the template given below. Write your code for following problem in space provided.
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Problem	Given an array of integers as input. Print square of each element in this array.
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Code Template:

<pre> 1 public class Task2 2 { 3 public static void main(String[] args) 4 { 5 int[] arr = {1,7,9,12}; 6 7 //write code here 8 9 } 10 11 public void square(int n) 12 { 13 int squareN = n * n; 14 System.out.println(squareN); 15 } 16 } </pre>
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Expected Output:

1 49 81 144

Task 3	Add another function to Task 2 named cube which takes n as input and prints cube of n. Use these functions to print cube and square of every element from the input array.
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Expected Output:

1 1 49 343 81 729 144 1728
