

# Scala Session-1



## Scala session - 1

### 1. what is scala?

Scala is a hybrid programming language (oops + functional programming)

functional aspect is the one we will be concentrating more on.

### 2. why scala?

Functional programming  
scripting approach  
concise

### 3. 2 modes of writing scala code

REPL - interactive manner

IDE - in eclipse, and then bundle as jar

## 4. what is a functional programming language.

pure functions and immutable values

**Note:** functional programming is a very good fit when we talk about library design and data crunching activities

Spark developers used Scala to create Spark libraries.

## 5. what is a function?

a function relates an input to a output.

```
a = sqrt(4)
```

```
a = 2
```

input is 4

output is 2

relationship between input and output is nothing but code of sqrt.

## 6. what is a pure function?

- a. the input solely determines the output
- b. the function doesn't change its input value
- c. there are no side effects, this means the function only do whatever it is intended for. it does not do anything extra.

**a.**

```
var a = 5;
```

```
def func(i: Int):Int = {return a+i} -> impure function
```

```
def func(i: Int, a:Int):Int = {return a+i} -> pure function
```

dollars to rs

```
dollarsToRs(40)
```

2800 RS

2900 RS

**b.**

```
def func1(a: Int) = { a = a+1; return a} -> impure
```

```
def func1(a: Int) = {return a+1} ->pure function
```

**c.**

```
def func1(a: Int) = {println("hello"); return a}  
// impure function because there is a side effect
```

```
def func1(a: Int) = {return a}  
// pure function
```



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