

1. Below is the variable I have declared in scala. I want to display 3.142 as output. How can we achieve using scala?

```
val pi : Double = 3.14159265
```

2. Below is the variable I have declared in scala. I want to display 00001 as output. How can we achieve using scala?

```
val numberOne : Int = 1
```

3. Below is the variable I have declared in scala. I want to display 42 as output. How can we achieve using scala?

```
val data: String = "To life, the universe, and everything is 42."
```

4. Below are the variables "isGreater","isLesser" I have declared in scala. What is the output for variables "impossible", "anotherWay" in scala?

```
val isGreater = 1 > 2
```

```
val isLesser = 1 < 2
```

```
val impossible = isGreater & isLesser
```

```
val anotherWay = isGreater && isLesser
```

5. Below are the variables "picard","bestCaptain" I have declared in scala. Will the declaration of "isBest" be correct? If yes then what will be the output?

```
val picard: String = "Picard"
```

```
val bestCaptain: String = "Picard"
```

```
val isBest: Boolean = picard == bestCaptain
```

6. Will the below statement execute in Scala? If yes then what will be the output?

```
println({val x = 10; x + 20})
```

7. How to access the first element of below variables "captainStuff", "shipList"?

```
val captainStuff = ("Picard", "Enterprise-D", "NCC-1701-D")
```

```
val shipList = List("Enterprise", "Defiant", "Voyager", "Deep Space Nine")
```

8. Below is the variable "shipList" I have declared in scala. Can you draw below expected output in scala?

```
val shipList = List("Enterprise", "Defiant", "Voyager", "Deep Space Nine")
```

**Expected output:**

esirpretnE  
tnaifeD  
regayoV  
eniN ecapS peeD

9. Below are the variables "numberList","moreNumbers" I have declared in scala. Will the declaration of "lotsOfNumbers" be correct? If yes then what will be the output?

```
val numberList = List(1, 2, 3, 4, 5)  
val moreNumbers = List(6, 7, 8)
```

```
val lotsOfNumbers = numberList ++ moreNumbers
```

10. Below is the variable "numberList " I have declared in scala. What will be the output for below scenario's?

```
val numberList = List(1, 4, 3, 3, 2, 5, 5, 6)
```

- a) how to display numbers in reverse order. Ex -> List(6, 5, 5, 2, 3, 3, 4, 1)
- b) how to display numbers in sorting order. Ex -> List(1, 2, 3, 3, 4, 5, 5, 6)
- c) how to find max value in above list.
- d) how to find the sum of values in the above list.
- e) how to find unique values in the above list. Ex -> List(1, 2, 3, 4, 5, 6)

11. If I am passing 1 then it should display January total days, 2 then it should display February total days, 3 then March total days, upto 12 then December total days. But In feb month if it is a leap year or non leap year then it should display the exact day. What can you do in scala?

12. What are all the types of Bitwise Operators, Assignment Operators in Scala. Explain with Example?

13. What is the break statement in scala. Explain with Example?

14. What is function composition, Explain with example?

15. What is Constructor overloading in scala, write example?

16. Based on input(single word ex "hello" or "123hai" or "#hashtag") whatever I am giving you need to find the first letter of a word, whether it is number or the alphabet or special char and return that char. If its alphabet then find it in upper or lower case then return.

17. How will you get the add/sum of 1,2,3,4,5,6,7,8,9 these numbers by passing all those into a

single UDF?

18. How do you display below output,

**Input:** "MMLLSSLLMMSSM"

**Expected output:** "SSSSMMMMMLLLL"

19 .How to do ordering for below List elements?

**val list = List("abc","a","abcde")**

20. How to reverse data/sentence in scala? Example reverse below var "x".

**val x = "scala is awesome lang"**

21. How to get below output? - want to reverse odd or even element of the string, how to achieve.

**val x = "scala is awesome lang"**

**Expected output: scala si awesome gnal**

22. What is Hashmap in scala? Write an example?

23. What is closure in scala, Give example

24. What is function currying in scala?

25. What is the Higher order function in scala?

26. Write a simple program to find Fibonacci numbers in Scala?