1. Palindrome check/ write a code to form palindrome
   1. String (verify original and reversed string : both lowercase)
      1. Using reverse()
      2. Using charAt()
      3. Using Character Array and traverse in reverse loop

Val A = “OPPO”

If (A.reverse == A)

{

Print(“It is a pallindrome”)

}

* 1. number

<https://www.javatpoint.com/palindrome-program-in-java>

1. Prime numbers (Eg num=13)
   1. Check number should be >1 : true
   2. Divide the number by 2 : 6
   3. Run a loop from 2 to num/2 : 2-6
   4. Check for mod == 0 : 13%2------13%6
   5. If above condition is true, number is not a prime
   6. Else number is prime
2. Odd numbers
   1. num%2 != 0
3. Even numbers
   1. num%2 == 0
4. {1,2,5,10] how to reach number 23 using least numbers

23%10 = 3 , 23 / 10 = 2.3 round off to lower = 2

3%5 = 3 , 3 / 5 = 0.66 = 0

3%2 = 1

1%1 = 0

1. List(“a”,”bb”,”ccc”) - Convert this in a-1,b-2,c-3 (1,2,3 are lengths)

Take first character of the list and append the length of each character in list using if loop.

* 1. Traverse the list
  2. Get the length of each string
  3. Take 1st char of string and append length

1. string(AaBbCc) convert to A2B2C2
2. Find duplicate elements in string
3. Find 2nd largest/smallest element in table

With result as (

Select salary,dense\_rank() over (orderby salary desc) as denserank from table

)

Select top 1 from table where denserank = 2

* 1. Get a length of array
  2. Sort the array in ascending order
  3. Get the 2nd last element using length

1. Fibonacci series
   1. Take 2 numbers : num1=0, num2=1
   2. Print num1, num2
   3. Run a loop from 1 to total numbers
   4. Sum = num1 + num2
   5. num1= num2
   6. num2=sum
   7. Print sum
2. Reverse a string/numbers without using inbuilt methods
   1. String
      1. Get a length of string
      2. Run a loop in reverse direction length-1 to 0
      3. Print or save each character
   2. Number using temp
      1. temp=num1
      2. num1=num2
      3. num2=temp
3. Identify special characters from a string and eliminate them
4. How to remove any particular element from a string using substring
5. Occurrence of a character in a string
6. 1-100 numbers are stored in an array, one number is missing how to find it out
7. Given two arrays, 1,2,3,4,5 and 2,3,1,0,5 find which number is not present in the second array
8. Find top 3 maximum numbers
9. Sorting techniques
10. Swap two numbers with and without using temp variable
    1. num1=num1+num2
    2. num2=num1-num2
    3. num1=num1-num2
11. Add 2 numbers without arithmetic operators

How to declare the schema while reading the data

Window function, dense rank, row number, rank

<https://javarevisited.blogspot.com/2011/06/top-programming-interview-questions.html#ixzz75qukkxoN>