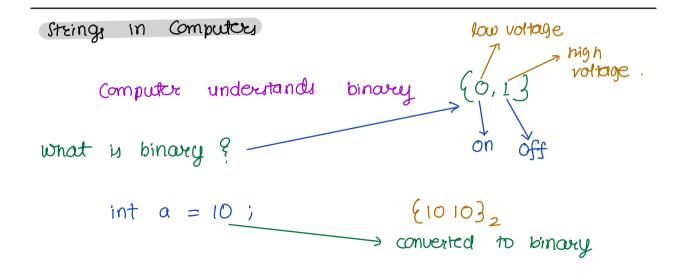
Strings

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fully
$$\longrightarrow$$
 Q \longrightarrow QT \longrightarrow Brivate chat Hands on keyboard.

Definition -----> Sequence of Charactors Note --> " " for string " --> for character. ————— no "abcl23 Examples " a b c " ---yes "123" yes "abc@123" ----- ye 1123' \rightarrow no Difference b/w "123" & 123
String int int Operations that can be performed on a string -> Concatenation → Find length Operations that can be performed on integers



-> All mathematical operations

Does the computer only need to store numerical data?

No we will also store char, string......

we should some how be able to map characters to some numerical value, so that a computer can understand

ASCII famorican standard code for Information Interchangely

Char ASCII Char ASCII Char ASCII
$$^{\prime}A^{\prime} \rightarrow 65$$
 $^{\prime}a^{\prime} \rightarrow 97$ $^{\prime}O^{\prime} \rightarrow 48$

length -> s.length();
Accepting character at the ith index -> s.charAt(i);
Check equality -> Given s and t as string
s.equal(t)

NOTE: Always compare non-primitive data types with equals ()

```
Q> Given a string, print its characters in new line.
   Input --- "Shaik"
   output --- S
                      a
                      K
public class Main {
     public static void main(String[] args) {
         String s = "Shaik";
         for (int \underline{i} = 0; \underline{i} < s.length(); \underline{i}++) {
              char ch = s.charAt(i);
              System.out.println(ch);
     }
```

}

Q> Given a string, print the ascii of its characters in new line.

```
4nput → "India"

output → 73 'I'

110 'n'

100 'd'

105 'i'

97 'q'
```

```
public class Main {
   public static void main(String[] args) {
      String s = "India";
      for (int i = 0; i < s.length(); i++) {
        int ascii = s.charAt(i);
        System.out.println(ascii);
      }
}</pre>
```

```
Given a string print me count of uppercase
Q >
      characters.
       Input \longrightarrow "FjRS78q31@3 Q"
Output \longrightarrow 3
 If a character is uppercose it will be in range of
               ['A' ___ 'Z']
 public class Main {
   public static void main(String[] args) {
       String s = "abcABCD&*^!@#";
       int A = 'A'; // 65
       int Z = 'Z'; // 90
       int cnt = 0;
       for(int i = 0; i < s.length(); i++){
         int ascii = s.charAt(i);
        // character is within the range of 'A' to 'Z'
         if(A <= ascii && ascii <= Z){</pre>
          cnt++;
       System.out.println(cnt);
```

```
public class Main {
  public static void main(String[] args) {
    String s = "abcABCD&*^!@#";
    int cnt = 0;
    for(int i = 0; i < s.length(); i++){
        char ch = s.charAt(i);

        // character is within the range of 'A' to 'Z'
        if('A' <= ch && ch <= 'Z'){
            cnt++;
        }
    }
}

System.out.println(cnt);
}</pre>
```

```
0> Given a string print me count of special charactery
      characters.
       1nput ---- " " rj RS 78 q 31 @ 3 Q "
       autout -> 2
what is a special character ?
      any letter \longrightarrow X anything other than any number \longrightarrow X thus
      character should not be a lowercase aliphabet
                        — 11 — uppercase alphabet
                         --- u ---- digit (8-193)
   character should not be lower case alphabet or
                                 upper case alphatet or
                                 digit
public class Main {
  public static void main(String[] args) {
      String s = \text{"kjRS78q31@3 Q{}";}
                                                   Bucak
      int cnt = 0;
                                                   22:38
      for(int i = 0; i < s.length(); i++){</pre>
       char ch = s.charAt(i):
       if(
        'A' <= ch && ch <= 'Z' || { if Chy letter or digit }
        'a' <= ch && ch <= 'z' ||
                                      continue;
        '0' <= ch && ch <= '9'
         ) {
        continue;
       cnt++;
      System.out.println(cnt);
```

Q> given a string. Peturn the reverse of a string Input -> "Rishar" Output --- "vahsik" Hint - Try to mink of concatenation $S = ^{11} a b c''$ k = 11 c b a 11 المو % = 11 11 ; —→ 11 11 x = x +"c" → "c" $k = k + {}^{11}b^{11} \longrightarrow {}^{11}Cb^{11}$ $H = H + {}^{11}Q'' \longrightarrow {}^{11}CbQ''$ Idea - Traverse from last char to first char keep concatenating the character to any vow. public class Main { public static void main(String[] args) { String s = "India"; System.out.println(reverseString(s)); } static String reverseString(String s) { String reverse = ""; for (int $\underline{i} = s.length() - 1; \underline{i} >= 0; \underline{i} --) {$ char ch = $s.charAt(\underline{i});$ reverse += ch; } return reverse; } }

Q> Given a string, check whether its palindrome or not.

Palindrome reads the same from left to right and right to left

```
S = "iti" \longrightarrow teve
S = "maam" \longrightarrow teve
S = "abc" \longrightarrow "abc" != "cba" fewe
```

Hint --- see if you can re-use prev questions code.

```
Static boolean is Palindrome (String s) of

String x = reverse String (s);

if (s. equals (x)) of

return true;

sequals (x);

else e

return false;
```

Announcement \longrightarrow Practice Test 15^{th} Tune 00:00 16^{th} Tune 23:59