1. Demonstrate various string constructors with proper java program —

```
Java
Java
ABCDEF
CDE
cde
```

2. Demonstrate string length, string literal, string concat

```
3
6
He is 9 years old

four : 4
```

3. Demonstrate to string ()

```
101     Sanjana     Bengaluru
102     Sarvi       Hyderabad
```

4,5) Using getchars (), extract Bmsce from " Welcome to Bmsce College" and
Demonstrate getbytes ( ) and to charArray ( ).

```
Bmsce     // getchars()
65        // get bytes ( )
66
67
68
69
70
71
ABCDEFG   // tocharArray ()
```

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9) Check output using `.equals()` and `.equalsIgnoreCase()`.

bruce equals bruce → true
bruce equals Bruce → false
bruce equals Bruce → false
bruce equalsIgnoreCase bruce → true

entry is matched : bruce will age

10) ll starts with() and endswith() and equals() is ==

true
true
false
false

hello equals Hello → true
hello == Hello → false

11) Write a java program to perform sorting for alphabets using compareTo()

apple
ball
umbrella
ten
cat
watch
dog
xmas
ant
fee
gur
han
iu
jug
kit
cit
man
nat
orange
pana
queen
tray
star

Q10. Write a java program to perform sorting of numbers from 10 to 1 using bubble sort.

10 9 8 7 6 5 4 3 2 1

Q13. Write a program using subString(), index of() for replacing "was" to "is"
"There was a test. There was, to"

o/p: This is a test. This is, too.

Q14, 15, 16) Demonstrate concat() for s1 = "hello" and s2 = "world"
Demonstrate replace() for College → Commerge.
trim()

"   Hello Friends   "

o/p: The string is helloworld
Commerge
Hello Friends

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17) Student class with record of registration number, full name, semester, CGPA

It dent with respect to CGPA and by name.

o/p:
Before sorting
Darshan — 9.1

Tanvi - 9.2
Rahul - 8.9
Eshwari - 9.1
Manoj - 8.5

After sorting by CGPA:
Tanvi - 9.2
Darshan - 9.1
Eshwari - 9.1
Rahul - 8.9
Manoj - 8.5

After sorting by name
Darshan - 9.1
Eshwari - 9.1
Tanvi - 9.2
Manoj - 8.5
Rahul - 8.9

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6) String buffer functions

6) f

buffer from before = Hello   // charAt
charAt (1) before = e

buffer after = Hi
charAt (1) after = i

f   // getChars
e

Hello from Bries College
a = 42!
I like Java!
I want this I

After delete : This is a test.
After deleteCharAt : his a test
After replace : his answer

9) Generics

Enter elements into the integer stack   10 20 30 40 50
Enter elements into double stack   60.50 70.67 80.98 10.11 22.45 .

Elements of stack 1   Elements of stack 2

50   22.45
40   10.11
30   80.98
20   70.67
10   60.50