

16/01/24

Strings (Extra programs)

Date _____
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Outputs:

① Hello World

Java

Hello

String Buffer Demo

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② Length of the string: 11

String literals are equal: true

Concatenated string: Hello World

③ Converted to string: 42

④ Extracted: Bmsec

⑤ Bytes: 72 101 108 111 32 87 111 114 101
String: Hello world

⑥ Bmsec equals Bmsec → true

Bmsec equals College → false

Bmsec equals BMSE → false

Bmsec equals Ignore Case BMSEC → true

⑦ Substring is matched

⑧ True

false

⑨ True

false

⑩ Using equals(): true

Using ==: false

(11) souled words: [apple, ball, cat, dog, eat, free, gun, hen, ice, fog, kite, life, man, net, orange, parrot, queen, ring, star, tree, umbrella, van, match, xmas, yatch, tu]

(12) Souled Number: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

(13) Original String: Thomas was a test
Thomas was, too.

String after replacement:

This is a test. This is, too.

(14) Concatenated string: helloworld

(15) Original: Welcome to Bmsce College
Replacement: Welcome to Bmsce
College.

(16) Original: "Hello Friends"

Trimmed: "Hello friends"

(17) Student Records:

Reg. Number: 1

Full Name: Selvi

Semester: 3

CGPA: 9.4

Reg. Number: 2

Full Name: Shantam

Semester: 3

CGPA: 8.6

Reg. Number: 3
Semester: 3 Full Name: Aayra

CGPA: 9.8

Reg. Number: 4

Full Name: Samrah

Semester: 4

CGPA: 6.5

Student Records after sorting by CGPA

Reg. Number: 3

CGPA : 9.8

Reg. Number: 1

CGPA : 9.4

Reg. Number: 2

CGPA : 8.6

Reg. Number: 4

CGPA : 6.5

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setLength(3): Hxl

charAt(2): l

setCharAt(1,'x'): Hxl

getChars(0,3,dest,0): Hxl

append("World"): Hxl wo lana red

reverse(): xl dlr anaJow lXH

delete(5,10): xl a lXH

deleteCharAt(2): dl a lXH

replace(1,4,"l"): di lXH

(19) Eagle flies high in the sky.
Eagle makes screeching sounds.
Hawk flies swiftly through air
Hawk makes a distinctive screed

(20) Circle Area: $\pi \times 7.8^2 = 33.981$
Circle Perimeter: $2\pi \times 7.8 = 48.982$

Triangle Area: $6 \times 8 \times 9 / 2 = 72$

Triangle Perimeter: $12 + 10 + 8 = 30$

Two right angles between two lines

angle 1 is x , angle 2 is 90°

angle 3 is $90^\circ - x$

angle 4 is $90^\circ - (90^\circ - x)$

angle 5 is $90^\circ - (90^\circ - (90^\circ - x)) = x$

angle 6 is $90^\circ - x$

angle 7 is $90^\circ - (90^\circ - x) = x$

angle 8 is $90^\circ - x$

angle 9 is $90^\circ - (90^\circ - x) = x$

angle 10 is $90^\circ - x$

angle 11 is $90^\circ - (90^\circ - x) = x$

angle 12 is $90^\circ - x$

angle 13 is $90^\circ - (90^\circ - x) = x$

angle 14 is $90^\circ - x$

angle 15 is $90^\circ - (90^\circ - x) = x$

angle 16 is $90^\circ - x$

angle 17 is $90^\circ - (90^\circ - x) = x$

angle 18 is $90^\circ - x$