abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789



Introduction to Programming

Workshop 5 – Functions

In this workshop you will practice the use of functions.

Follow the instructions given to complete small programming tasks.

5.1 Task 1 Letters and Numbers

Create a program with two methods:

- 1. printLetters(): prints letters from a-z
- 2. printNumbers(): prints numbers from 1-9

Call first printLetters() method, then printNumbers() and after that printLetters() again.

Hint! To print the letters you can use for example Number toString() (https://developer.mozilla.org/en-us/docs/Web/JavaScript/Reference/Global Objects/Number/toString)

5.2 Task 2 Lorem Ipsum

Create a method that prints out Lorem ipsum sentence ("Lorem Ipsum dolor sit amet, consectetur adipiscing elit.") ten times. Call this method.

```
Lorem Ipsum dolor sit amet, consectetur adipiscing elit.
```

First sum is: 2

Second sum is: 23

First sum is: -10.211

5.3 Task 3 Sum of Numbers

Create a program that has a method sum(firstNumber, secondNumber) that returns the sum of the numbers passed to

the method as input parameters. Call this method, save the return value in a variable and print it out. Do this three times with different variable values.

5.4 Task 4 Circumference of a Circle

Create a program that calculates the circumference of a circle when radius is given (circumference = $2 * \pi *$ radius). Call this method three times with different parameters and print out the results.





Circumference of a circle with radius 5 is 31.41592653589793
Circumference of a circle with radius 15 is 94.24777960769379
Circumference of a circle with radius 50 is 314.1592653589793

5.5 Task 5 Smileys

Create a program that has the following functionality:

- 1. Ask the user for a string and store it in a variable.
- 2. replaceSmileys(text): Finds smileys in text and replaces them with corresponding text as shown in the table below.
- 3. replaceSmileysWithReplacer(text, replacer): Finds smileys in text and replaces them with replacer. You can use regular expression (https://developer.mozilla.org/en-us/docs/Web/JavaScript/Reference/Global_Objects/RegExp) for this.

Print out the text.

<u> </u>	*smiling*
(2)	*sad*
<u> </u>	*winkwink*
<3	*love*

Please enter a string: Hi :) I miss you :(<3
Replaced text: Hi *smiling* I miss you *sad* *love*
Replaced text (*): Hi * I miss you * *

