

CSD 3464 - PROGRAMMING

JAVA SE (S2023)

ASSIGNMENT 1

Topics covered:

- Intro to Computers and Java
- Java Fundamentals
- Operators & Data Types

1. Declare the required variables, then ask user to enter employee's full name, id and monthly salary from keyboard, then display the values like this: Employee's name is James Cook, employee's id is 34256, and employee's monthly salary is \$4533.5

Console example:

```
Enter employee's full name:
James Cook
Enter employee's id:
34256
Enter employee's monthly salary:
4533.50
Employee's name is James Cook, employee's id is 34256, and employee's monthly salary is $4533.5
```

2. Declare variables to store a first name and a last name, and initialize with your own first name and last name. Then declare two character variables, use correct String class methods to get first character of first name and last character of last name and display like this: My **first** name is John, my **last** name is Hopper, **first** character in my **first** name is 'J' and **last** character in my last name is 'r'

Console example:

```
My first name is John, my last name is Hopper, first character in my first name is 'J' and last character in my last name is 'r'
```

3. Write a program that displays the following pattern:

```
*****
```

```
***
```

```
*
```

```
***
```

Console output example:

```
*****
****
*
***
*****
```

4. Ontario sales tax rate is 13%. Ask user to enter sales amount from keyboard, then calculate tax amount and display in the console. Decimal part must be rounded to hundredth (cents).

Console example:

```
Enter sales amount: -
45609
Sales tax amount is $5929.17
```

5. An Internet provider charges for megabytes according to monthly traffic volume:

Traffic (MB)	Rate (\$/MB)
5000 or more	0.1
2000 - 4999	0.015
1000 -1999	0.02
1-999	0.025

Ask user to enter monthly traffic in megabytes, calculate the monthly bill and display. Console example:

```
Please enter Internet monthly traffic in megabytes
3400
Monthly bill for 3400MB traffic is $51.0
```

SUBMISSION

Submit the code and
screenshots. Comment your
code.

Put your name and ID in the comments as well.