CSCI 101 Programming I

Lab 11

Create a directory in your **csci101** directory named **lab11**. Write a program in a file named **Lab11.java** that satisfies the following requirements.

- [ ] Use vi to create a file named **scores.txt** and write to the file the following content:

```
5
90:100:87:93:40
```

In **Lab11.java** do the following:

- [ ] Create a Scanner that can read **scores.txt**.
- [ ] Change the Scanner's delimiter set to parse tokens using colons and newline characters.
- [ ] Read in the first number in **scores.txt** and store it in a variable named **size**.
- [ ] Allocate an array of integers of length **size**.
- [ ] Read in the rest of the integers and store them in the array.
- [ ] Compute the mean average of the values in the array.
- [ ] Print to the screen "Mean: " followed by the computed mean average.

- [ ] Use vi to create a file named **strings.txt** and write to the file the following content:

```
5
Mae Bussy,Riley Williams,Alice Cline,Kyle Johnson,Zack Peters
```

In **Lab11.java** do the following:

- [ ] Create a Scanner that can read **strings.txt**.
- [ ] Change the Scanner's delimiter set to parse tokens using commas and newline characters.
- [ ] Read in the first number in **strings.txt** and store it in a variable named **size**.
- [ ] Allocate an array of strings of length **size**.
- [ ] Read in the strings and store them in the array.
- [ ] Print the contents of the array to the screen with each name on a separate line.

- [ ] Use vi to create a file named **chars.txt** and write to the file the following content:

```
g-o-o-f-y
s-h-e-e-p
d-a-n-c-e
```

In **Lab11.java** do the following:

- [ ] Create a Scanner that can read **chars.txt**.
- [ ] Change the Scanner's delimiter set to parse tokens using dashes and newline characters.
- [ ] Create a 5x5 2D array that holds chars and read the characters in **chars.txt** into the 2D array.
- [ ] Print the contents of the 2D array to the screen with each row on a separate line and spaces between the characters.