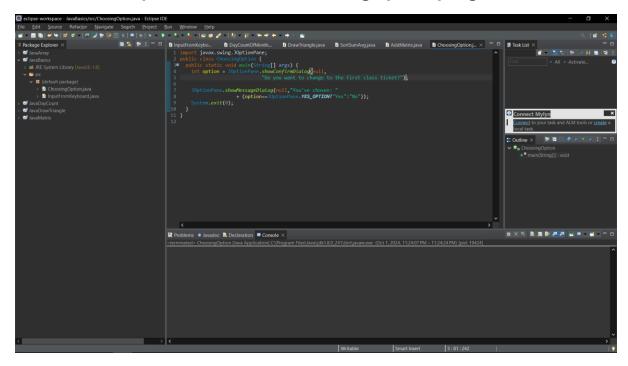
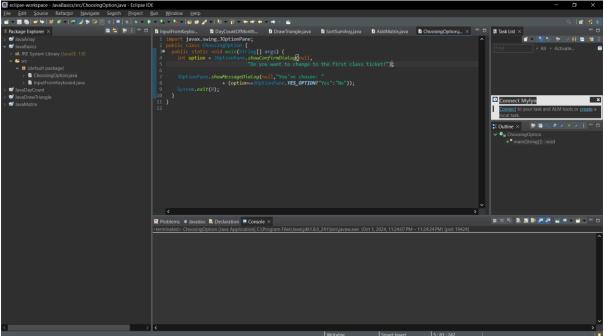
Lab 01: Environment Setup and Java Basics

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6. Exercises

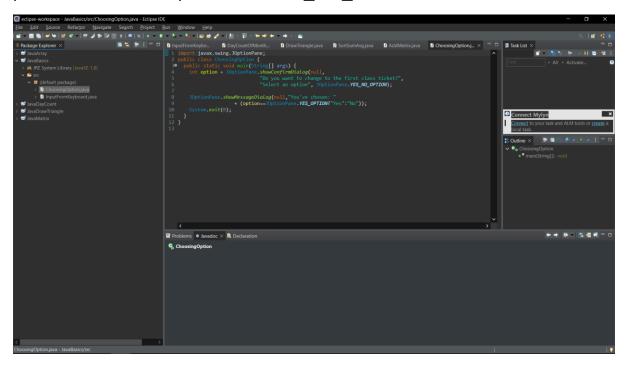
6.1 Write, compile and run the ChoosingOption program

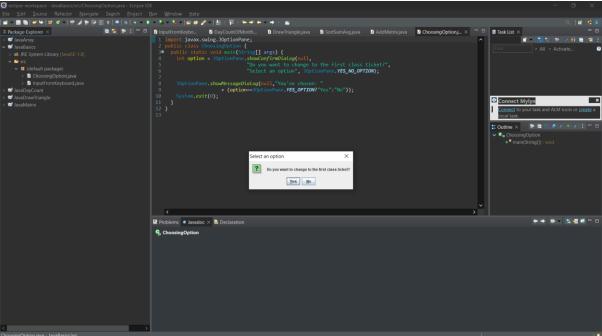




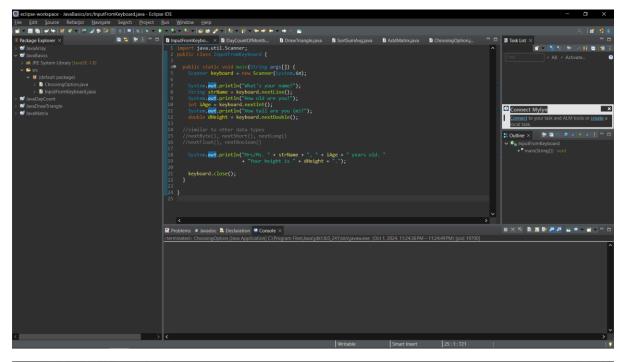
Questions:

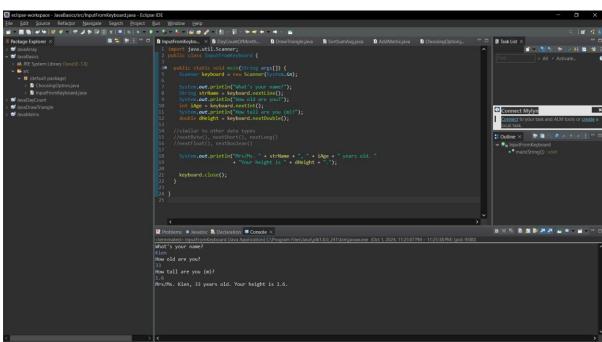
- What happens if users choose "Cancel"?
 - -> Same as choosing "No"
- How to customize the options to users, e.g. only two options: "Yes" and "No", OR "I do"
- -> Use another *showConfirmMessage* method that has *optionType* parameter set to 'JoptionPane.*YES_NO_OPTION'*





6.2 Write a program for input/output from keyboard



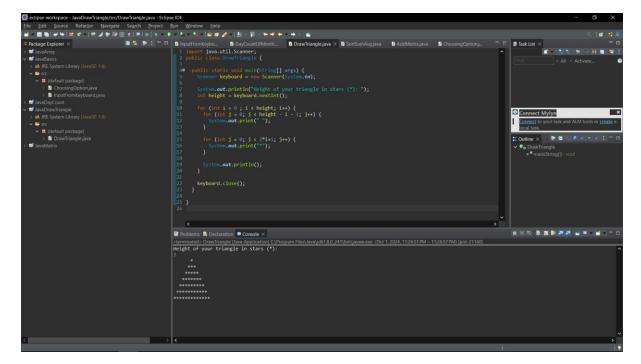


6.3 Write a program to display a triangle with a height of n stars (*), n is entered by users.

E.g. n=5:

***** *****

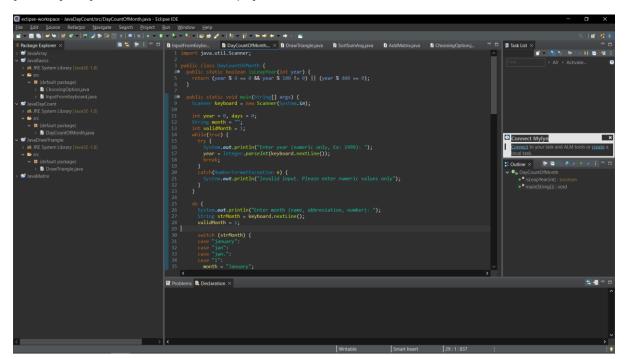
```
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```

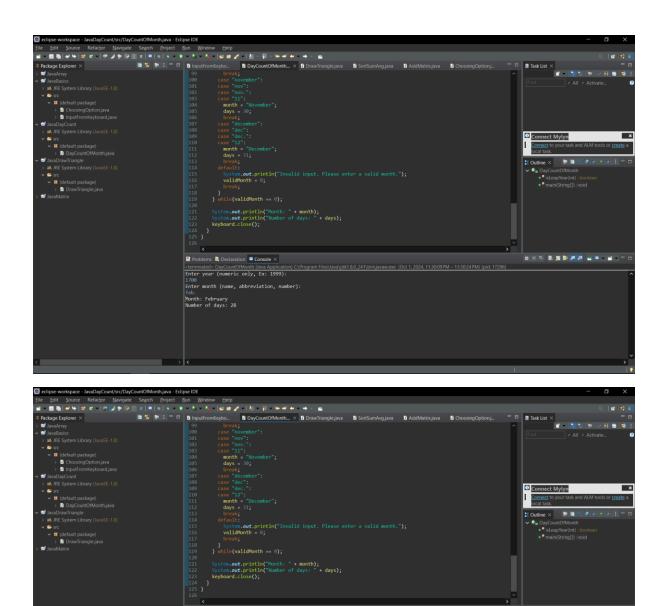


6.4 Write a program to display the number of days of a month, which is entered by users (both month and year). If it is an invalid month/year, ask the user to enter again.

Note: You must create a new Java project for this exercise.

- The user can either enter a month in its full name, abbreviation, in 3 letters, or in number. To illustrate, the valid inputs of January are January, Jan., Jan, and 1.
- The user must enter a year in a non-negative number and enter all the digits. For instance, the valid inputs of year 1999 is only 1999, but not 99, "one thousand nine hundred ninety-nine", or anything else.
- A year is either a common year of 365 days or a leap year of 366 days. Every year that is divisible by 4 is a leap year, except for years that are divisible by 100, but not by 400. For instance, year 1800 is not a leap year, yet year 2000 is a leap year.





6.5 Write a Java program to sort a numeric array, and calculate the sum and average value of array elements.

```
}
yystem.out.println("Original array: " + Arrays.toString(array));
hrmys.sort(array);
yystem.out.println("Sorted array: " + Arrays.toString(array));
yystem.out.println("Sum: " + sum);
yystem.out.println("Sum: " + sum);
yystem.out.println("Avarage: " + (double)sum/count);
Problems & Declaration ×
            -39
Driginal array: [34, 0, 9234, -39]
Sorted array: [-39, 0, 34, 9234]
Sum: 9229
Avarage: 2307.25
```

6.6 Write a Java program to add two matrices of the same size.

