Project 2

Fall, 2012

Due 10/31/2012

**Astronomy Helper**

Create an application that displays the following menu:

Select a Planet

1. Mercury
2. Venus
3. Earth
4. Mars
5. Exit the program

Enter your selection:

When the user selects a planet from the menu, the program should display data about the planet’s average distance from the sun, the planet’s mass, and the planet’s surface temperature. Use the following data in your program:

Mercury

Average distance from the sun 57.9 million kilometers

Mass 3.31 X 10\*\*23 kg

Surface temperature -173 to 430 degrees Celsius

Venus

Average distance from the sun 108.2 million kilometers

Mass 4.87 X 10\*\*24 kg

Surface temperature 472 degrees Celsius

Earth

Average distance from the sun 149.6 million kilometers

Mass 5.967 X 10\*\*24 kg

Surface temperature -50 to 50 degrees Celsius

Mars

Average distance from the sun 227.9 million kilometers

Mass 0.6424 X 10\*\*24 kg

Surface temperature -140 to 20 degrees Celsius

Things that should be included:

Read the data from a file that you have created.

Validate that the user has entered a valid number. Loop until a valid number is entered.

Put the data into a list format.

Access the list based on the number.

Format the output as shown above.

Document your program.

Include pseudocode as a separate file.

Include your test file.