## 10.1 - Monthly Sales

Write a Python program that collects monthly sales data from the user and stores it in a list. The program should then use `matplotlib` to plot the sales values as a pie chart. When plotting, specify the color of the pie slices using Purdue's retired secondary color palette shown in Table 1a. The pie chart should include a title, and every slice in the chart should be labeled with the name of the month it represents. Test your program with the data in Table 1b.

| Color Name | Hex Code |
| ---: | :--- |
| CoalGray | 4D4038 |
| MoonDustGray | BAA892 |
| EverTrueBlue | 5B6870 |
| SlayterSkyBlue | 6E99B4 |
| AmeliaSkyBlue | A3D6D7 |
| LandGrantGreen | 085C11 |
| RossAdeGreen | 849E2A |
| CeleryBogGreen | C3BE0B |
| SpringFestGreen | E9E45B |
| OakenBucketBrown | 6B4536 |
| BellTowerBrick | B46012 |
| MackeyOrange | FF9B1A |

(a)

| Month | Sales |
| ---: | :--- |
| January | 4000 |
| February | 2000 |
| March | 5000 |
| April | 3000 |
| May | 4000 |
| June | 6000 |
| July | 5000 |
| August | 2000 |
| September | 5000 |
| October | 8000 |
| November | 7000 |
| December | 9000 |

(b)

Table 1: (a) Purdue secondary colors and (b) test data for Exercise 10.1.

A sample run of the program and the resulting pie chart are shown below. Your program output and pie chart should exactly match the sample. User input in the sample run has been highlighted in Pappy's Purple to distinguish it from the program's output, but your user input does not need to be colored. Save the resulting figure as `monthly_sales_login.pdf` and save your Python program as `monthly_sales_login.py`, where `login` is your Purdue login. Then submit both of them along with a screenshot of a run of your program using the test data.

**Terminal**

```
$ python monthly_sales_login.py
Enter the sales for January: 4000
Enter the sales for February: 2000
Enter the sales for March: 5000
Enter the sales for April: 3000
Enter the sales for May: 4000
Enter the sales for June: 6000
Enter the sales for July: 5000
Enter the sales for August: 2000
Enter the sales for September: 5000
Enter the sales for October: 8000
Enter the sales for November: 7000
Enter the sales for December: 9000
```
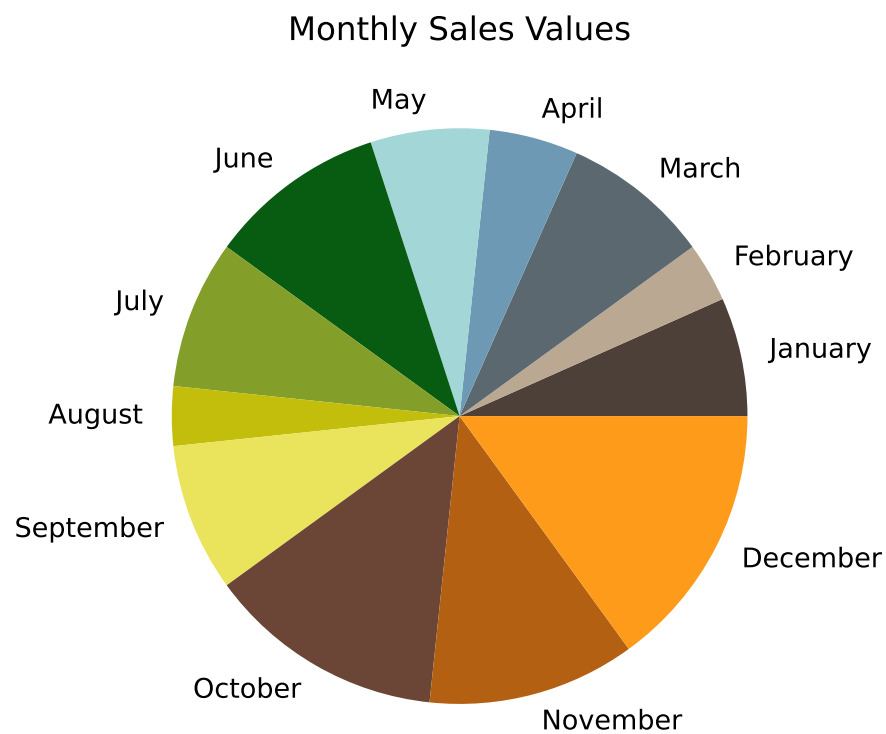
Figure 1: Sample monthly sales pie chart for Exercise 10.1.