

Raul Rodriguez

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Midterm_1.py > ...
1  HWname=[]
2  HWgrade=[]
3  n=int(input("How many grades do you wish to enter?: "))
4  for i in range(n):
5      name=input("Enter name: ")
6      HWname.append(name)
7      grade=int(input("Enter grade: "))
8      HWgrade.append(grade)
9  gradesDictionary={}
10 for i in range(n):
11     gradesDictionary[HWname[i]]=HWgrade[i]
12 print(gradesDictionary)
```

```
/usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Midterm_1.py
raulrodriguez@Rauls-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Midterm_1.py
How many grades do you wish to enter?: 3
Enter name: HW1
Enter grade: 90
Enter name: HW2
Enter grade: 89
Enter name: HW3
Enter grade: 87
{'HW1': 90, 'HW2': 89, 'HW3': 87}
raulrodriguez@Rauls-Air WorkSpaceVSPython %
```

```
Midterm_2.py > ...
1  from functools import reduce
2  myList=[2,3,-1,4,8,9]
3  print(reduce(lambda a,b: a if a<b else b,myList))
```

```
/usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Midterm_2.py
raulrodriguez@Rauls-Air WorkSpaceVSPython % /usr/local/bin/python3 /Users/raulrodriguez/Documents/WorkSpaceVSPython/Midterm_2.py
-1
raulrodriguez@Rauls-Air WorkSpaceVSPython %
```

Midterm_3.py > ...

```
1  from matplotlib import pyplot as plt
2  grades = {'HW1':93,'HW2':85,'HW3':94,'HW4':90,'HW5':82}
3  x=list(grades.keys())
4  y=list(grades.values())
5  plt.plot(x,y)
6  plt.xlabel("HW name")
7  plt.ylabel("Grade")
8  plt.title("HW grades plot")
9  plt.ylim(0,100)
10 minimum=y[0]
11 maximum=y[0]
12 for i in range(len(y)):
13     if y[i]<minimum:
14         a=i
15     if y[i]>maximum:
16         b=i
17 plt.scatter(x[a],min(y),label='min grade',color='r')
18 plt.scatter(x[b],max(y),label='max grade',color='g')
19 plt.legend()
20 plt.show()
```

