In [5]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
sns.set(color_codes=True)
```

In [7]:
```
df = pd.read_csv("college_1.csv")
```

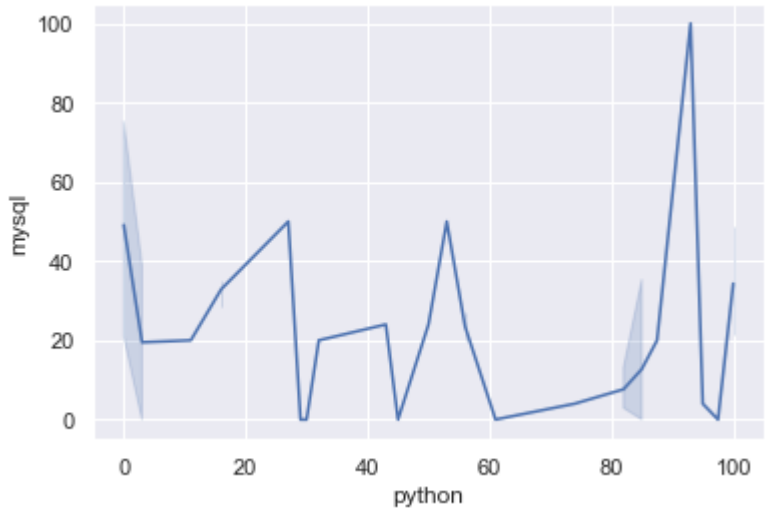
In [8]:
```
df.head()
```

Out[8]:

	Name	python	mysql	Previous Geekions	CodeKata Score	Department	Rising
0	A.Dharani	82.0	20.0	24500	24500	Computer Science and Engineering	0
1	V.JEEVITHA	82.0	20.0	21740	21740	Computer Science and Engineering	0
2	HEMAVATHI.R	100.0	100.0	19680	19680	Computer Science and Engineering	0
3	Mugunthan S	100.0	47.0	10610	10610	Computer Science and Engineering	0
4	Sathammai.S	100.0	8.0	8980	8980	Computer Science and Engineering	0

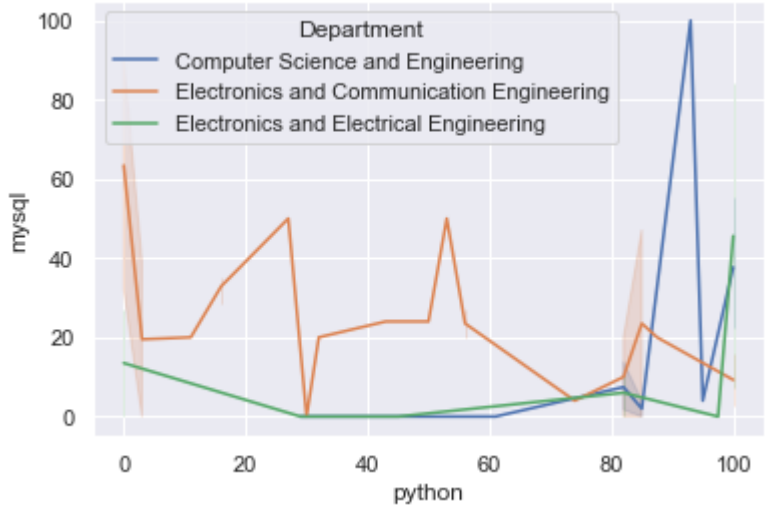
In [9]:
```
#Lineplot
sns.lineplot(x="python",y="mysql",data=df)
```

Out[9]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



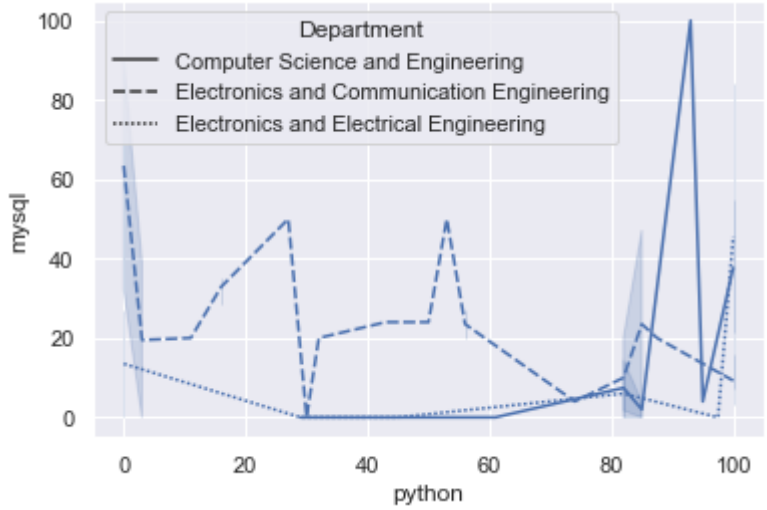
In [19]:
```
#Mapping another column with a diifferent colour
sns.lineplot(x="python",y="mysql",data=df,hue="Department")
```

Out[19]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



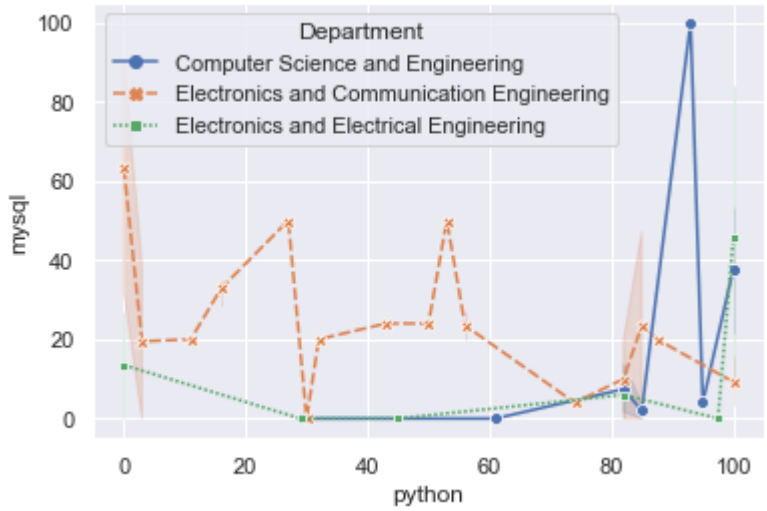
In [17]:
```
#Adding some styling for the Previous Geekions column data
sns.lineplot(x="python",y="mysql",data=df,style="Department")
```

Out[17]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



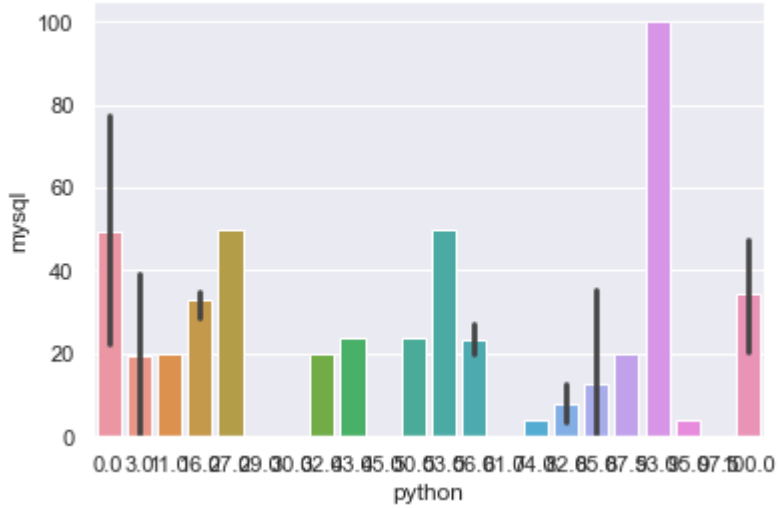
In [18]:
```
#Adding markers for value point
sns.lineplot(x="python",y="mysql",data=df,hue="Department",style="Department",markers
```

Out[18]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



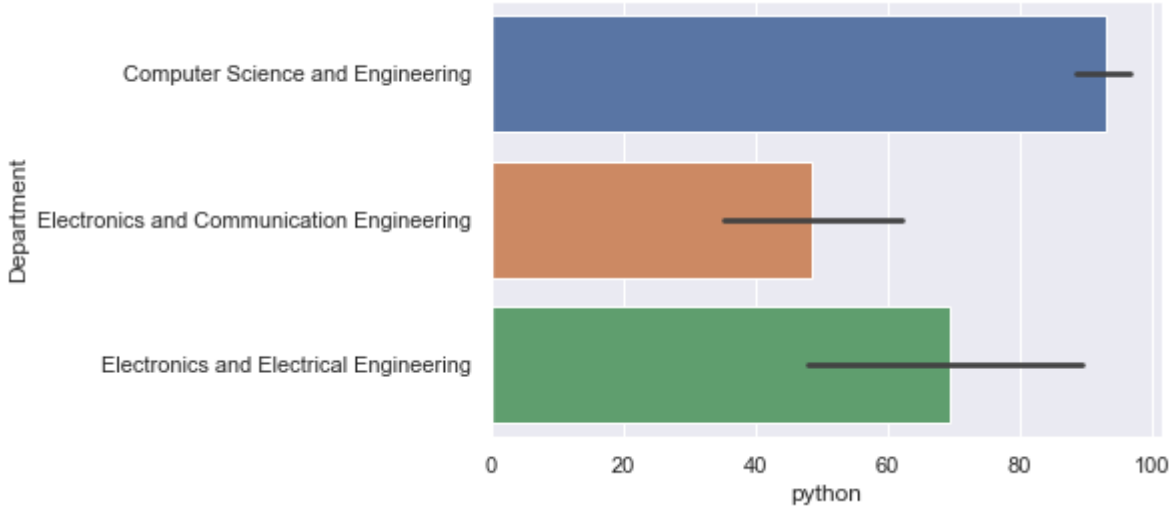
In [20]:
```
#Barplot comparing columns python and mysql
sns.barplot(x="python",y="mysql",data=df)
```

Out[20]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



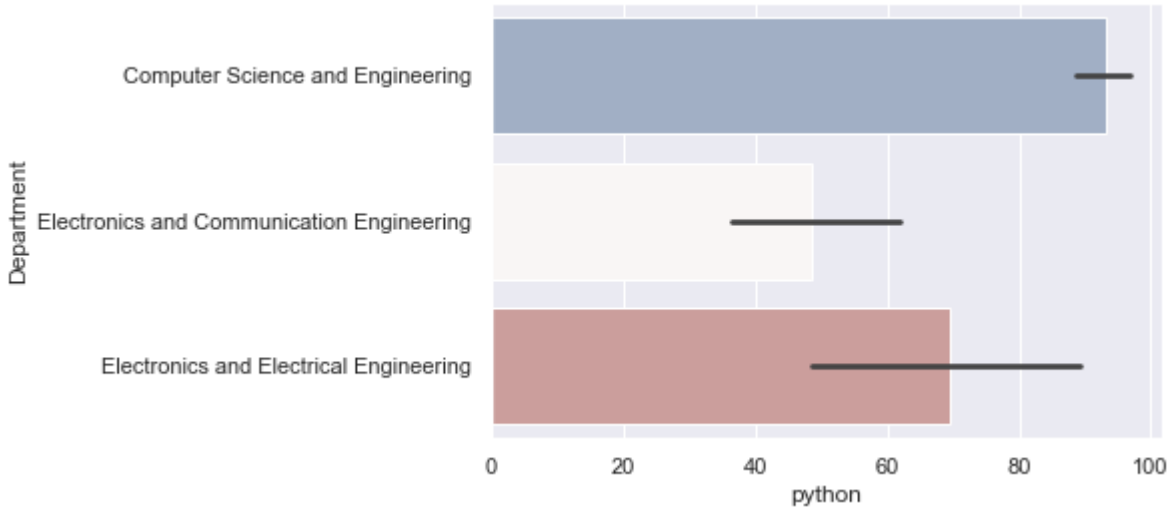
In [21]:
```
#Barplot comparing columns python and Department
sns.barplot(x="python",y="Department",data=df)
```

Out[21]:
```
<AxesSubplot:xlabel='python', ylabel='Department'>
```



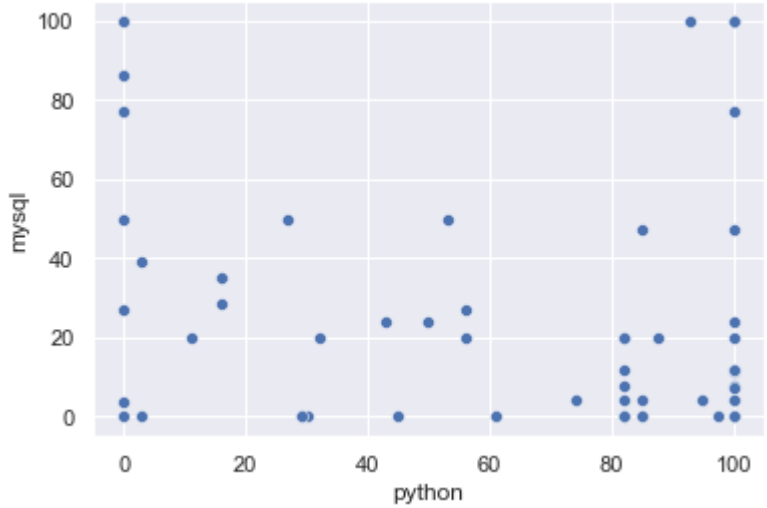
In [22]:
```
#Changing the colour for barplot comparing columns python and Department
sns.barplot(x="python",y="Department",data=df,palette="vlag")
```

Out[22]:
```
<AxesSubplot:xlabel='python', ylabel='Department'>
```



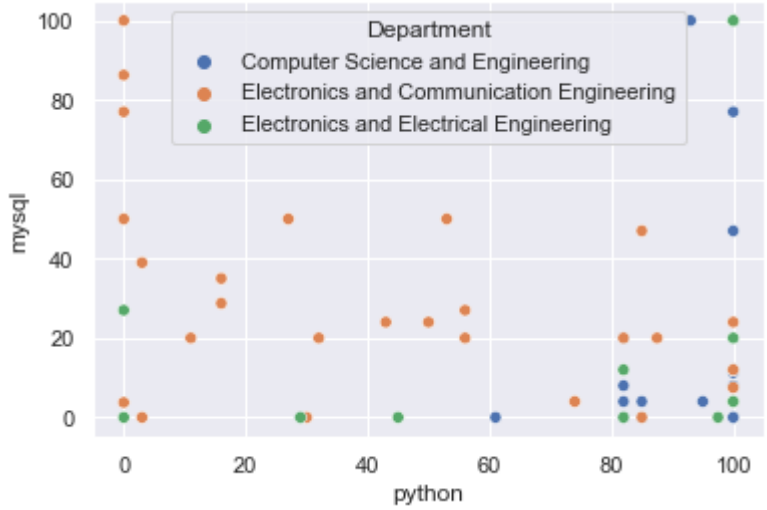
In [27]:
```
#Scatterplot
sns.scatterplot(x="python",y="mysql",data=df)
```

Out[27]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



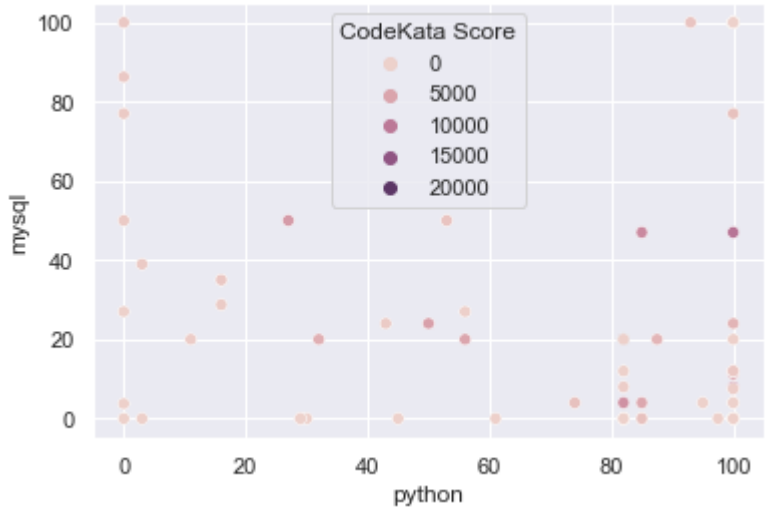
In [28]:
```
#Adding hue on department to discern better
sns.scatterplot(x="python",y="mysql",data=df,hue="Department")
```

Out[28]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



In [29]:
```
#Adding hue on CodeKata Score to help diiferentiate
sns.scatterplot(x="python",y="mysql",data=df,hue="CodeKata Score")
```

Out[29]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```

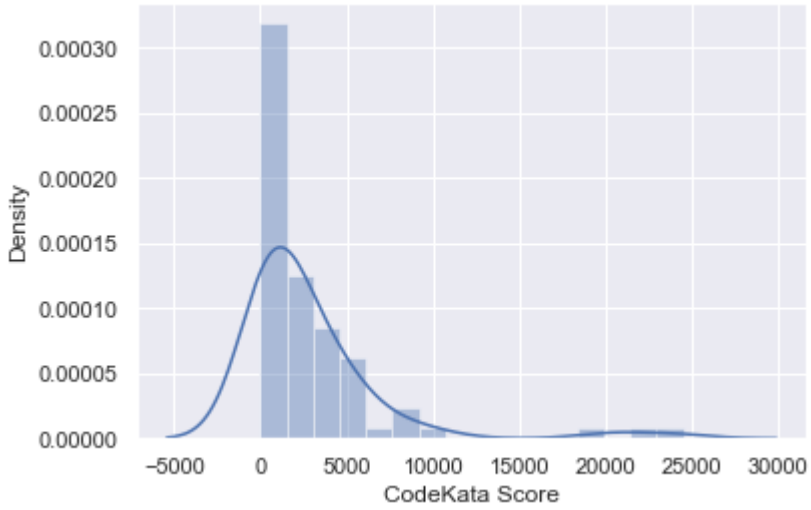


In [30]:
```
#Histogram/DistPlot
sns.distplot(df['CodeKata Score'])
```

```
C:\Users\swara\AppData\Local\Programs\Python\Python39\lib\site-packages\seaborn\distr
```

```
ibutions.py:2619: FutureWarning: `distplot` is a deprecated function and will be remo
ved in a future version. Please adapt your code to use either `displot` (a figure-lev
el function with similar flexibility) or `histplot` (an axes-level function for histo
grams).
  warnings.warn(msg, FutureWarning)
```

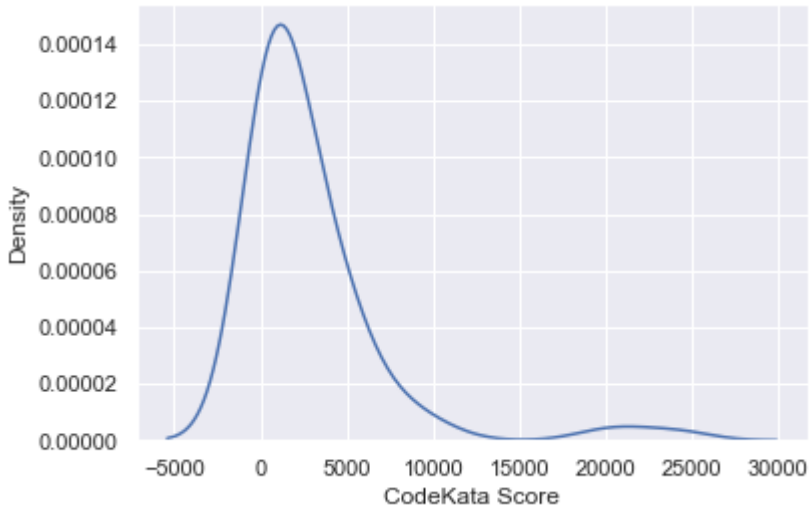
Out[30]:
```
<AxesSubplot:xlabel='CodeKata Score', ylabel='Density'>
```



In [32]:
```
#Printing only frequency curve
sns.distplot(df['CodeKata Score'],hist=False)
```

```
C:\Users\swara\AppData\Local\Programs\Python\Python39\lib\site-packages\seaborn\distr
ibutions.py:2619: FutureWarning: `distplot` is a deprecated function and will be remo
ved in a future version. Please adapt your code to use either `displot` (a figure-lev
el function with similar flexibility) or `kdeplot` (an axes-level function for kernel
density plots).
  warnings.warn(msg, FutureWarning)
```

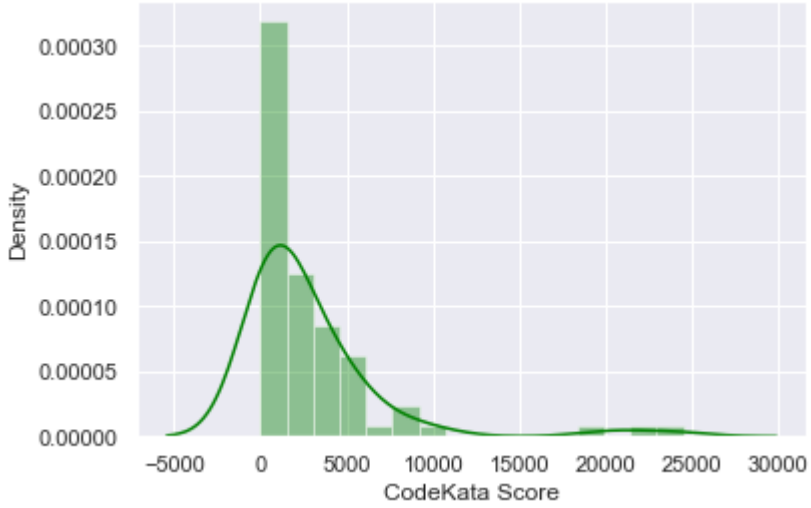
Out[32]:
```
<AxesSubplot:xlabel='CodeKata Score', ylabel='Density'>
```



In [33]:
```
#Adding some colour to the distribution plot
sns.distplot(df['CodeKata Score'],color="green")
```

```
C:\Users\swara\AppData\Local\Programs\Python\Python39\lib\site-packages\seaborn\distr
ibutions.py:2619: FutureWarning: `distplot` is a deprecated function and will be remo
ved in a future version. Please adapt your code to use either `displot` (a figure-lev
el function with similar flexibility) or `histplot` (an axes-level function for histo
grams).
  warnings.warn(msg, FutureWarning)
```

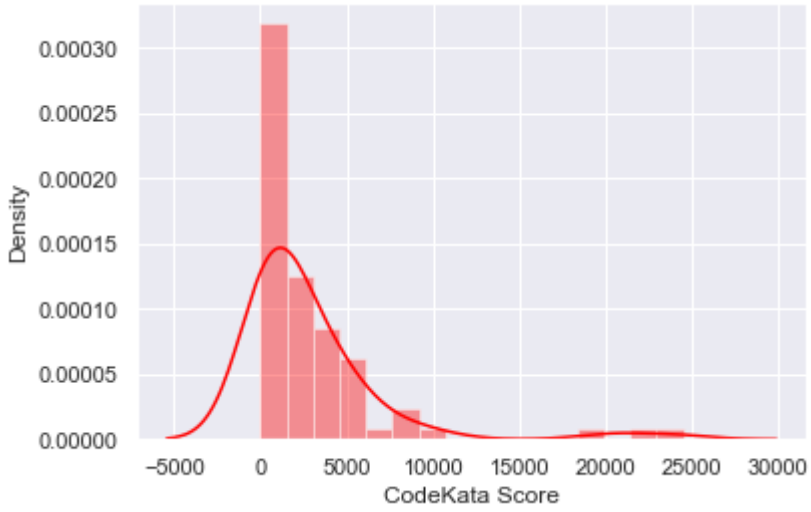
Out[33]:
```
<AxesSubplot:xlabel='CodeKata Score', ylabel='Density'>
```



In [34]:
```
#Adding some colour to the distribution plot
sns.distplot(df['CodeKata Score'],color="red")
```

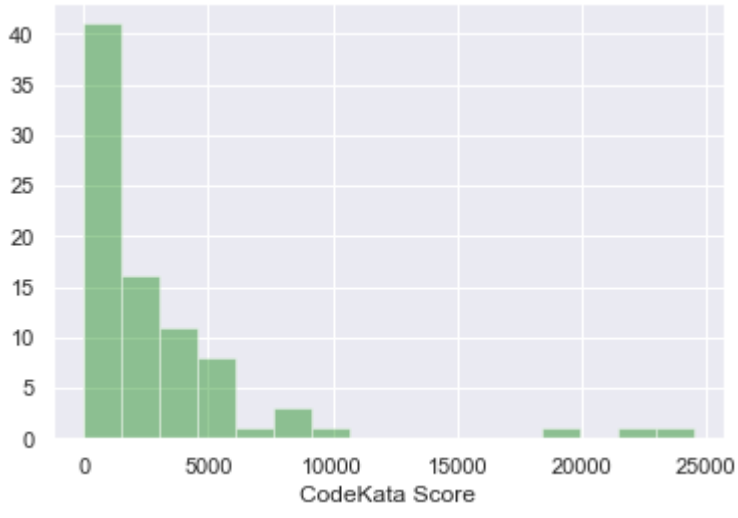
```
C:\Users\swara\AppData\Local\Programs\Python\Python39\lib\site-packages\seaborn\distr
ibutions.py:2619: FutureWarning: `distplot` is a deprecated function and will be remo
ved in a future version. Please adapt your code to use either `displot` (a figure-lev
el function with similar flexibility) or `histplot` (an axes-level function for histo
grams).
  warnings.warn(msg, FutureWarning)
```

Out[34]:
```
<AxesSubplot:xlabel='CodeKata Score', ylabel='Density'>
```



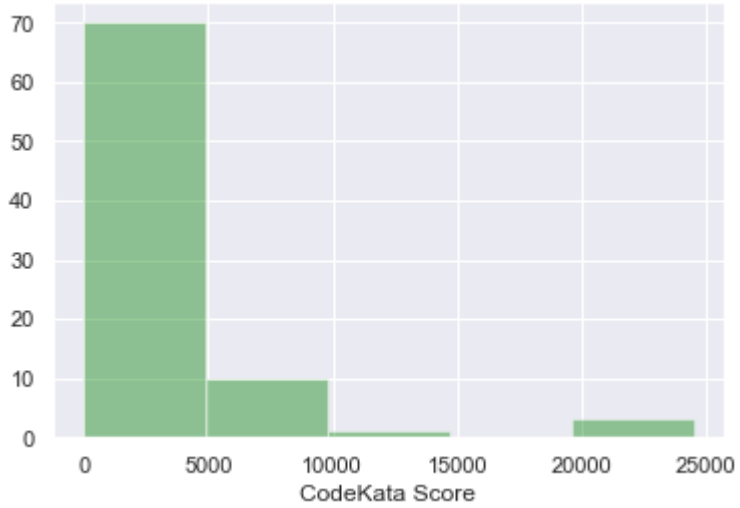
In [37]:
```
#Plotting only the histogram without the frequency curve
sns.distplot(df['CodeKata Score'],kde=False,color="green")
```

Out[37]:
```
<AxesSubplot:xlabel='CodeKata Score'>
```



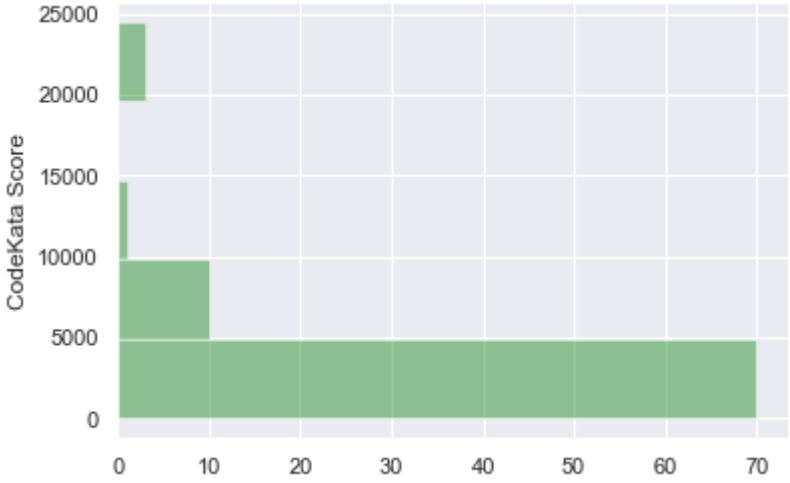
In [40]:
```
#Changing the number of bins
sns.distplot(df['CodeKata Score'],kde=False,color="green",bins=5)
```

Out[40]:
```
<AxesSubplot:xlabel='CodeKata Score'>
```



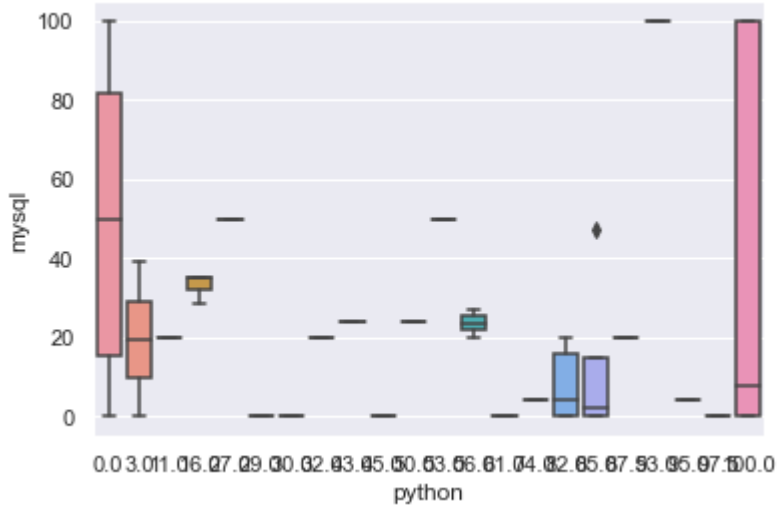
In [41]:
```
#Plottting on the vertical axis
sns.distplot(df['CodeKata Score'],kde=False,color="green",bins=5,vertical=True)
```

Out[41]:
```
<AxesSubplot:ylabel='CodeKata Score'>
```



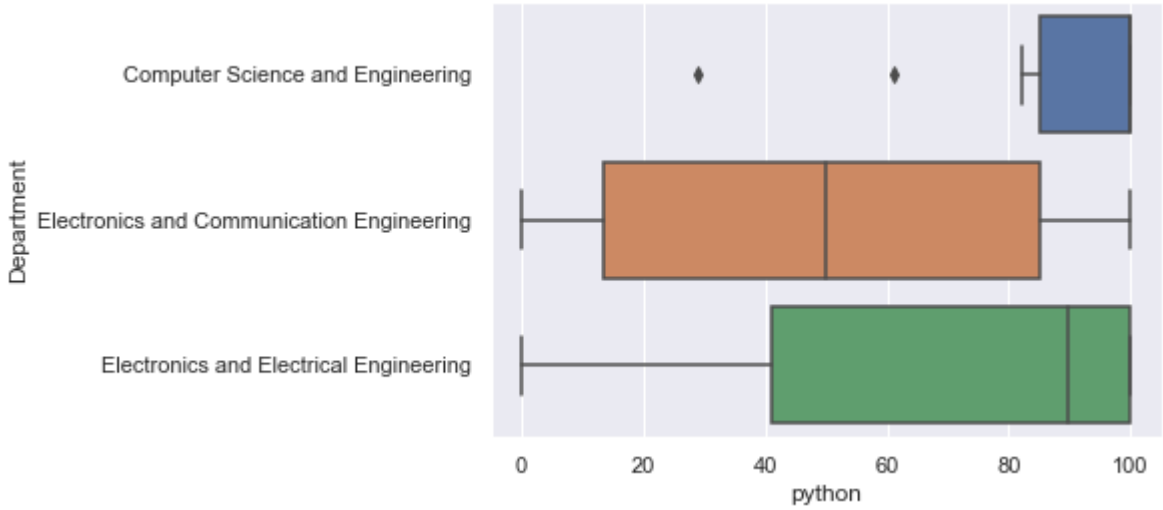
In [44]:
```
#Boxplot
#Plotting based on python and mysql columns
sns.boxplot(x="python",y="mysql",data=df)
```

Out[44]:
```
<AxesSubplot:xlabel='python', ylabel='mysql'>
```



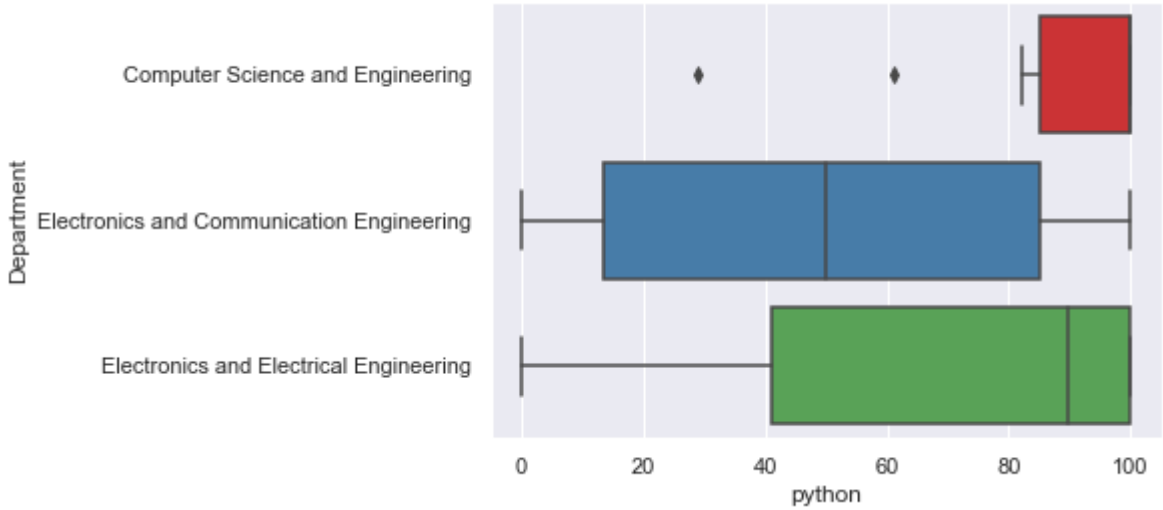
In [47]:
```
#Plotting based on python and Department columns
sns.boxplot(x="python",y="Department",data=df)
```

Out[47]:
```
<AxesSubplot:xlabel='python', ylabel='Department'>
```



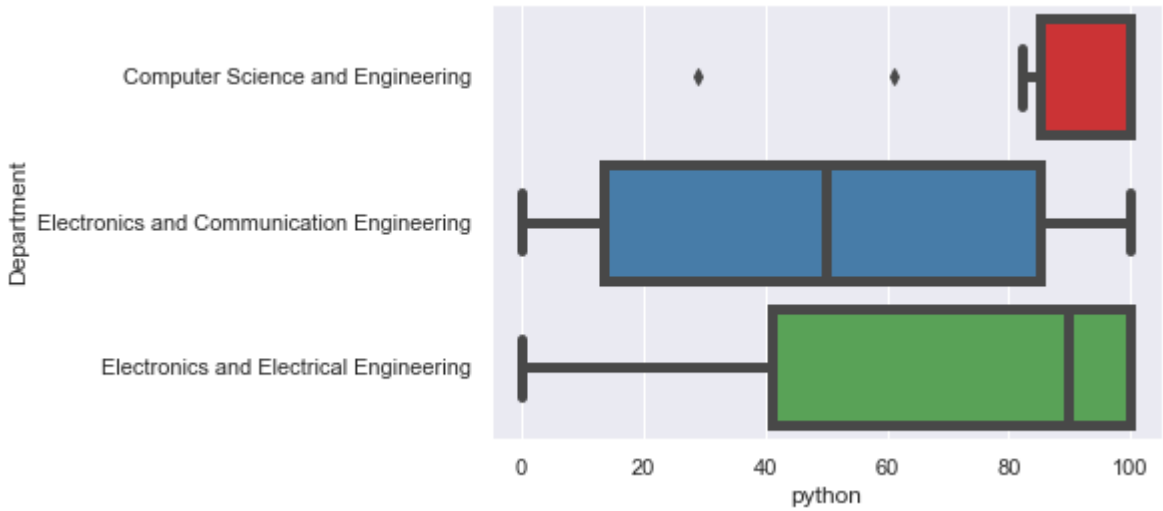
In [49]:
```
#Plotting based on Department
sns.boxplot(x="python",y="Department",data=df,palette="Set1")
```

Out[49]:
```
<AxesSubplot:xlabel='python', ylabel='Department'>
```



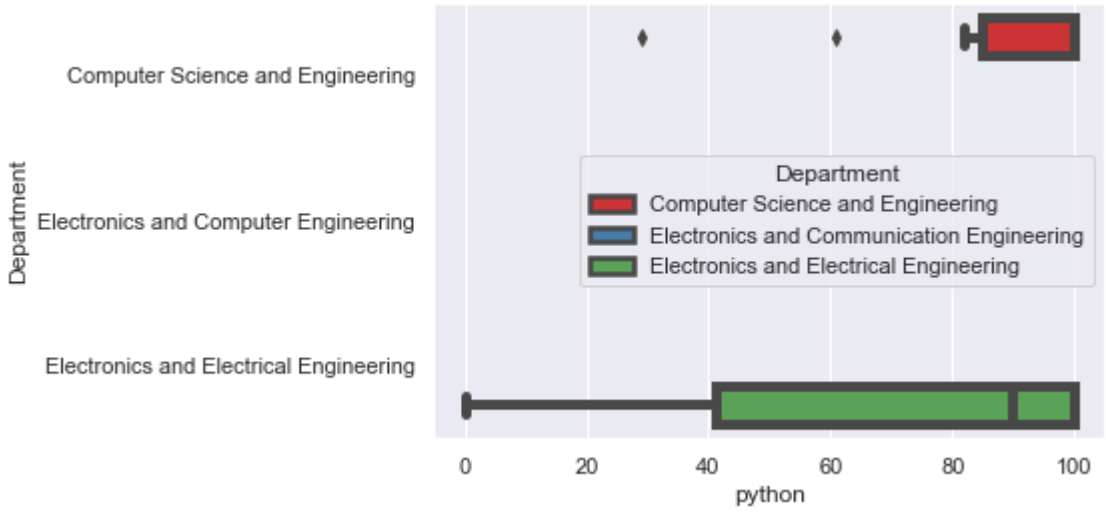
In [50]:
```
#Changing line width of boxplot
sns.boxplot(x="python",y="Department",data=df,palette="Set1",linewidth=5)
```

Out[50]:
```
<AxesSubplot:xlabel='python', ylabel='Department'>
```



In [52]:
```
#Plotting based on custom ordering on x axis
sns.boxplot(x="python",y="Department",data=df,palette="Set1",linewidth=5,order=["Comp
```

Out[52]:
```
<AxesSubplot:xlabel='python', ylabel='Department'>
```



In [ ]: