

```
In [1]: !pip install plotly==5.13.0
```

Requirement already satisfied: plotly==5.13.0 in c:\users\admin\anaconda3\lib\site-packages (5.13.0)
Requirement already satisfied: tenacity>=6.2.0 in c:\users\admin\anaconda3\lib\site-packages (from plotly==5.13.0) (8.0.1)

```
In [2]: import pandas as pd

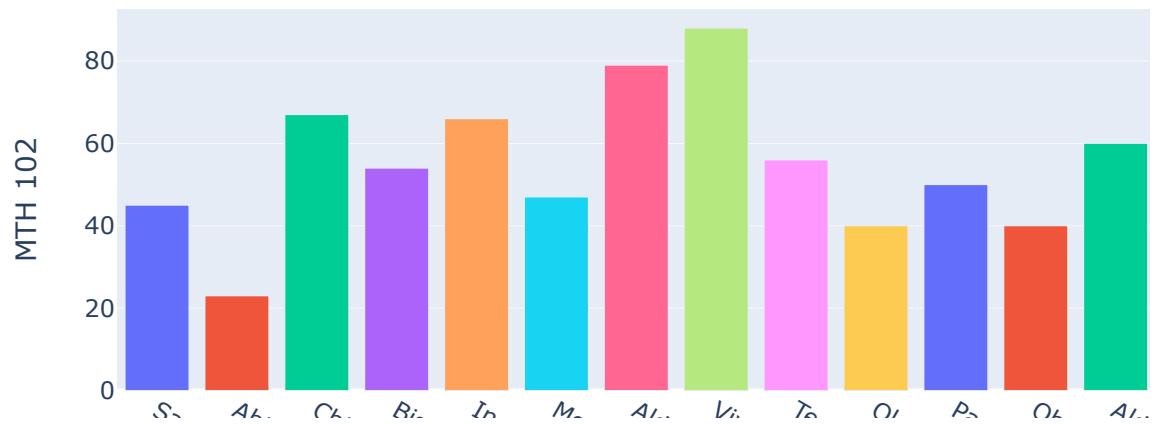
data = pd.read_excel("Engineering.xlsx")
data
```

Out[2]:

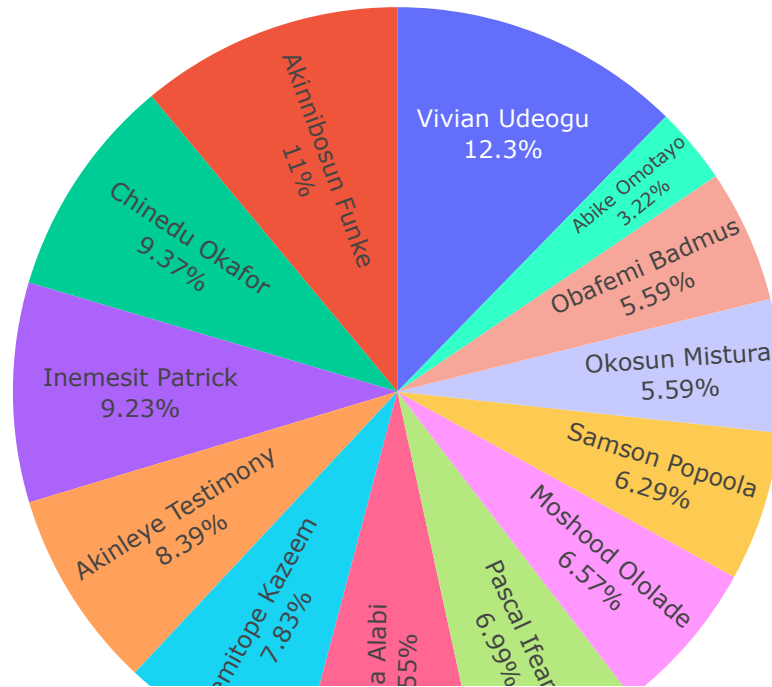
	Student Name	Department fee	MTH 102	CIT 142	PHY 192	BIO 101
0	Samson Popoola	paid	45	69	55	80
1	Abike Omotayo	paid	23	73	45	75
2	Chinedu Okafor	unpaid	67	56	56	90
3	Bisola Alabi	paid	54	87	34	74
4	Inemesit Patrick	paid	66	78	50	68
5	Moshood Ololade	paid	47	60	56	45
6	Akinnibosun Funke	unpaid	79	63	89	60
7	Vivian Udeogu	paid	88	45	39	57
8	Temitope Kazeem	paid	56	89	72	89
9	Okosun Mistura	paid	40	56	74	30
10	Pascal Ifeanyi	unpaid	50	71	65	40
11	Obafemi Badmus	paid	40	63	48	87
12	Akinleye Testimony	unpaid	60	45	67	69

```
In [3]: import plotly.express as px  
  
px.bar(data, x="Student Name", y="MTH 102", color="Student Name", height=400,
```

Bar Chart for Students in MTH

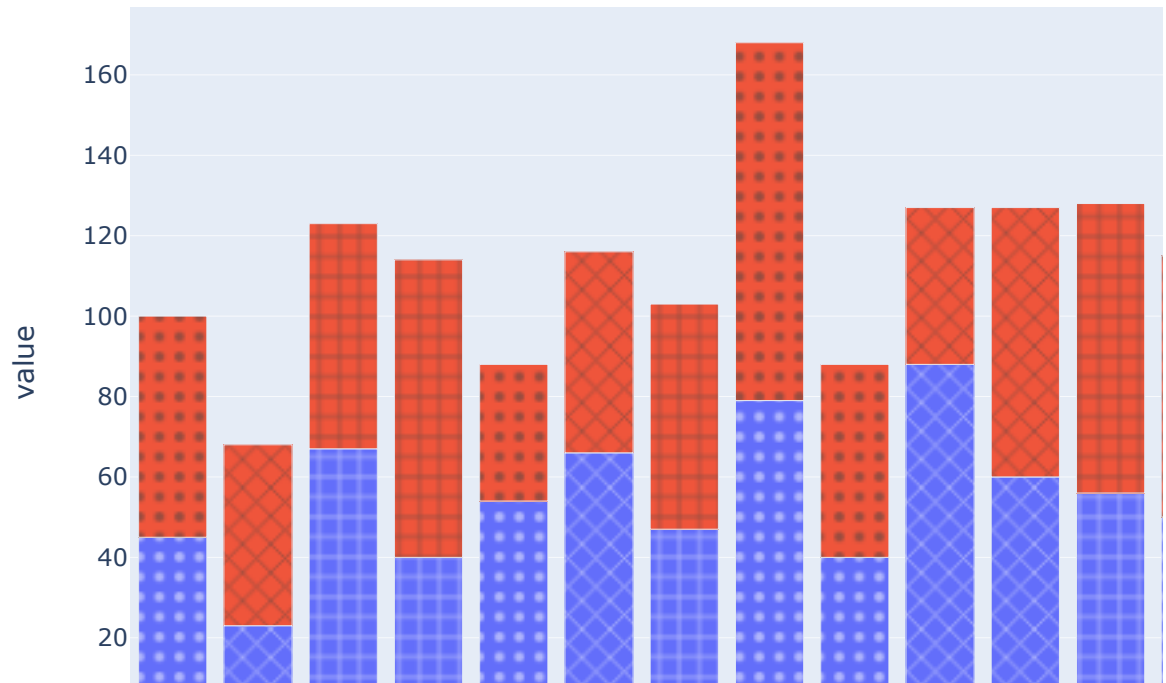


```
In [4]: a = px.pie(data, values="MTH 102", names="Student Name")  
a.update_traces(textinfo="percent+label", textposition="inside")
```

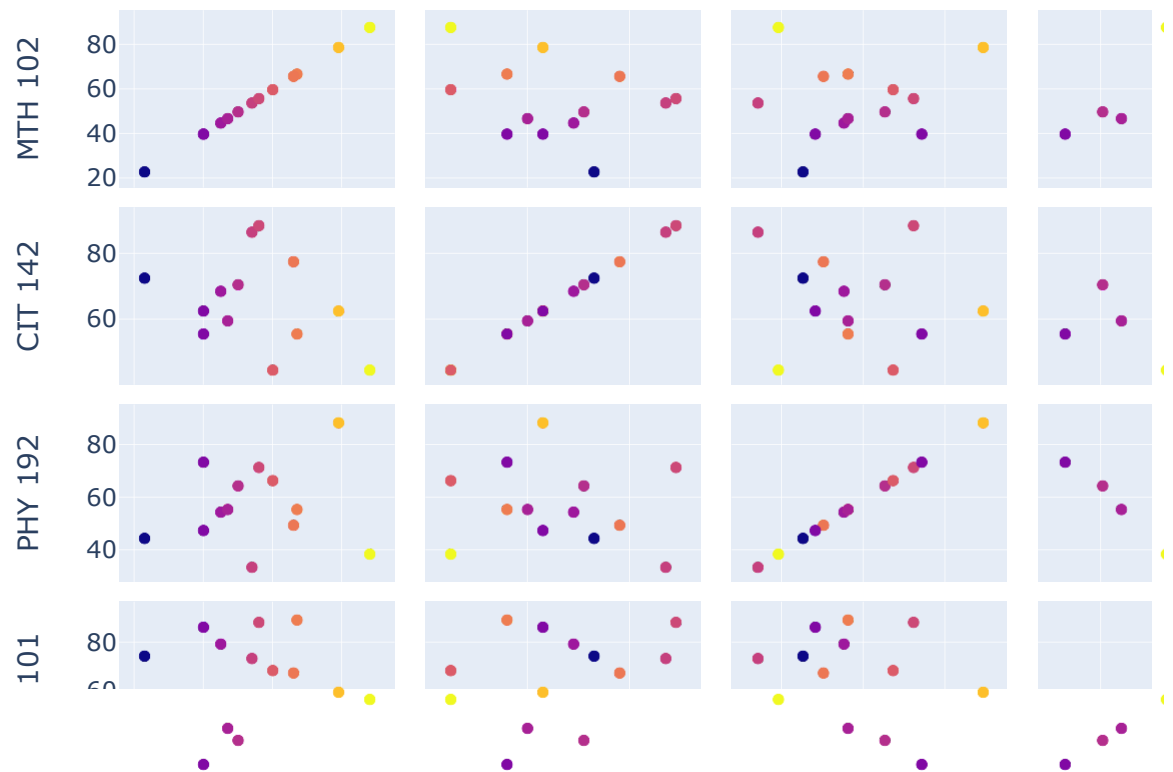


In [5]:

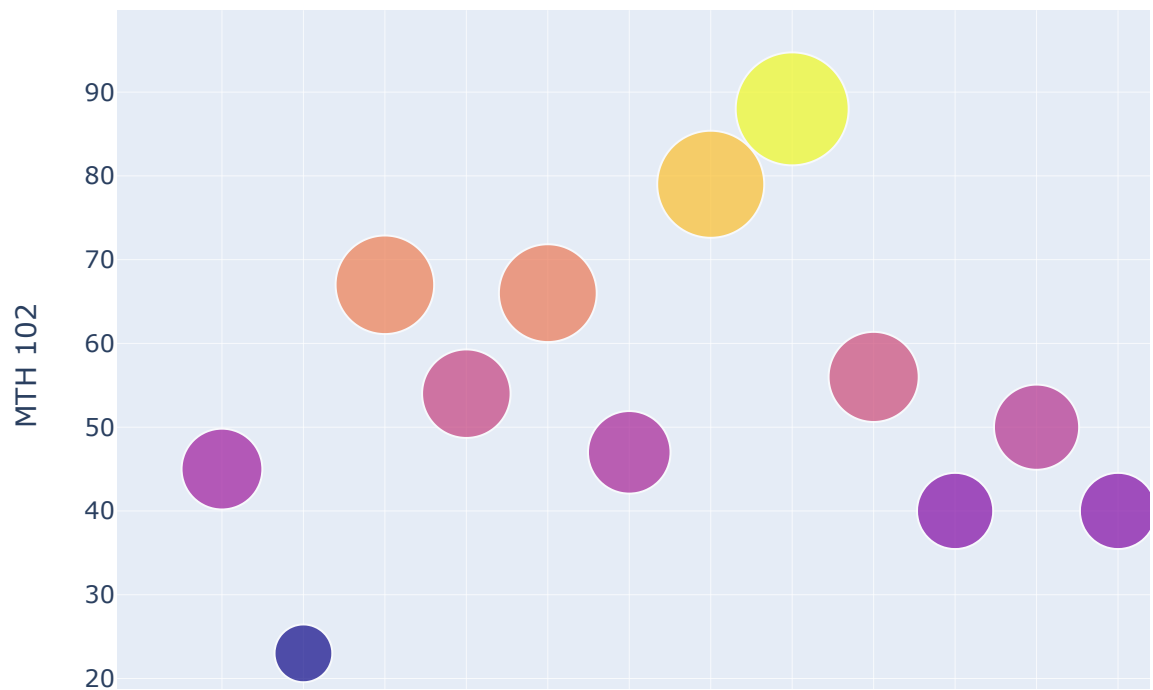
```
fig = px.bar(data, x="Student Name", y=["MTH 102", "CIT 142", "PHY 192"],  
             pattern_shape="CIT 142", pattern_shape_sequence=[".", "x", "+"])  
fig.show()
```



```
In [6]: fig = px.scatter_matrix(data, dimensions=["MTH 102", "CIT 142", "PHY 192", "BIO 101"],  
fig.show()
```



```
In [7]: fig = px.scatter(data, x="Student Name", y="MTH 102", size="MTH 102", color="MTH 102",  
                        hover_name="Student Name", size_max=40)  
fig.show()
```



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In [ ]:
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