01- Importing libraries and loading data

In [1]:
```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# Load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
chilla_data
```

Out[1]:

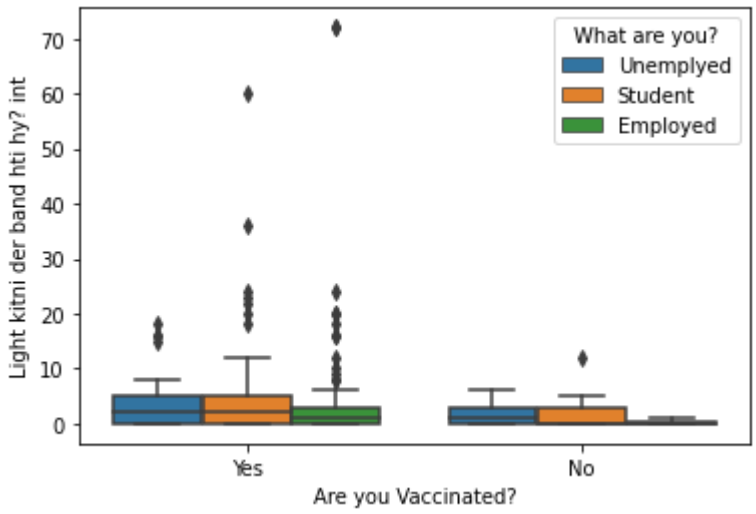
	Gender	Location	Age	Qualification_completed	field_of_study	Purpose_for_chilla	What are you?	Blc grc
0	Male	Pakistan	36-40	Masters	Natural Sciences	to boost my skill set	Unemplyed	
1	Male	Pakistan	26-30	Bachelors	CS/IT	to boost my skill set	Student	
2	Male	Pakistan	31-35	Masters	Enginnering	Switch my field of study	Employed	
3	Female	Pakistan	31-35	Masters	CS/IT	to boost my skill set	Employed	
4	Female	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Student	
...	...	...	...	...	...	...	...	
370	Male	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Employed	
371	Male	Pakistan	31-35	Bachelors	Enginnering	to boost my skill set	Employed	
372	Male	Pakistan	21-25	Bachelors	CS/IT	to boost my skill set	Employed	
373	Male	Pakistan	26-30	Masters	Enginnering	to boost my skill set	Employed	
374	Female	Pakistan	31-35	Masters	Mathematics	Switch my field of study	Unemplyed	

375 rows × 23 columns

02- plotting the box plot

In [2]:
```
import seaborn as sns
```

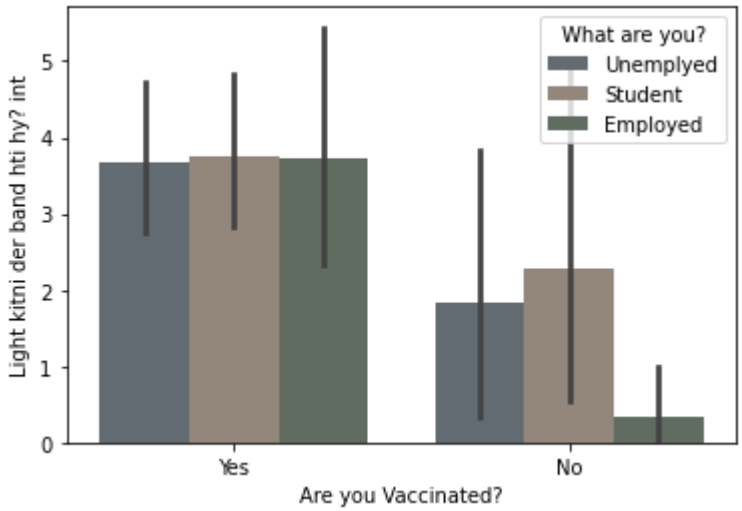
```
import pandas as pd
import matplotlib.pyplot as plt
# load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="Are you Vaccinated?",y="Light kitni der band hti hy? int", hue="What are
plt.show()
```



03- saturation of the color

In [3]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.barplot(x="Are you Vaccinated?",y="Light kitni der band hti hy? int", hue="What are
plt.show()
```

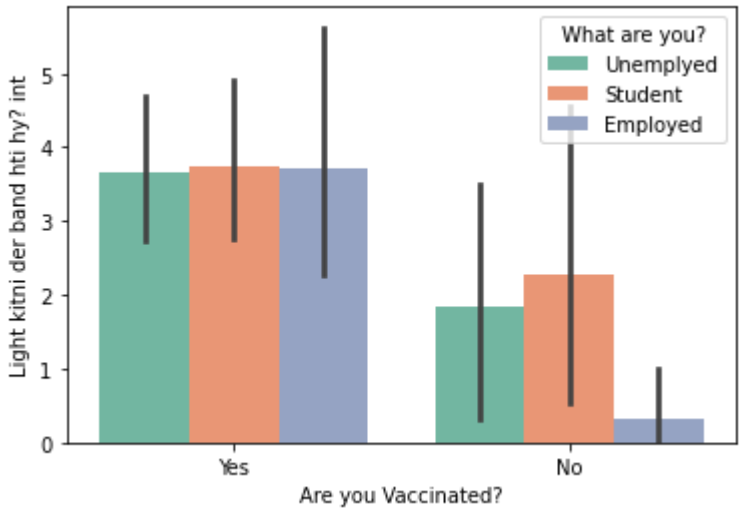


04- Adding palette and checking dodge

In [5]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# load dataset
```

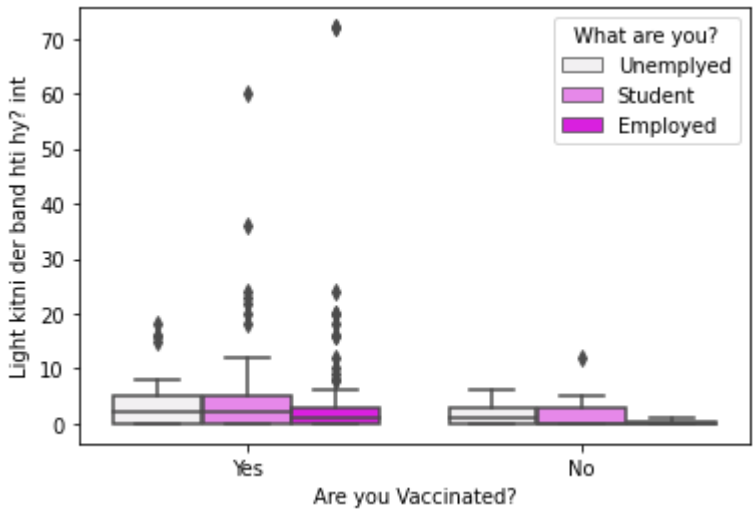
```
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.barplot(x="Are you Vaccinated?",y="Light kitni der band hti hy? int", hue="What are
            palette="Set2", dodge=True )
plt.show()
```



05- Adding color

In [6]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# Load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="Are you Vaccinated?",y="Light kitni der band hti hy? int", hue="What are
plt.show()
```

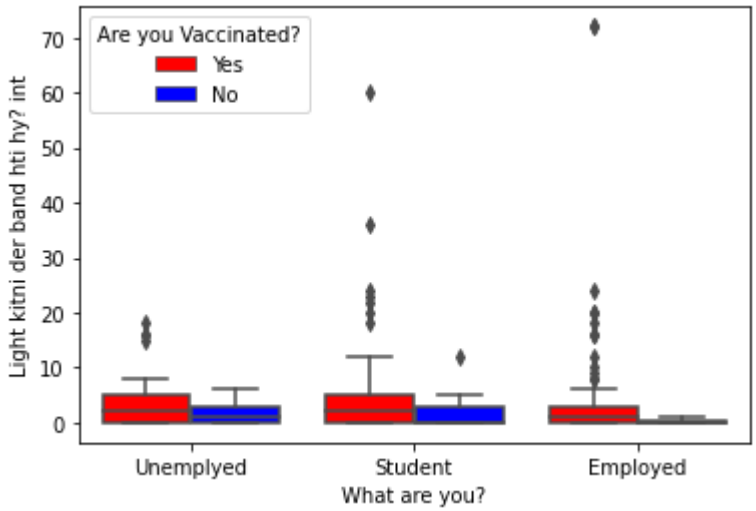


06- Adding a seperate color for each hue

In [42]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# Load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="What are you?",y="Light kitni der band hti hy? int"
```

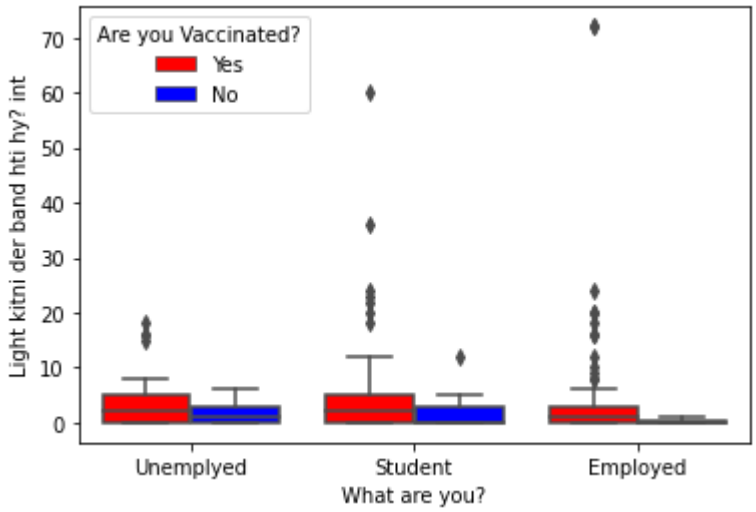
```
            ,saturation=1,
            data=chilla_data, hue="Are you Vaccinated?",
            palette={"Yes":"red","No":"blue"})
plt.show()
```



07- Adding orient element

In [34]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="What are you?",y="Light kitni der band hti hy? int"
            ,saturation=1,
            data=chilla_data, hue="Are you Vaccinated?", orient="v",
            palette={"Yes":"red","No":"blue"})
plt.show()
```

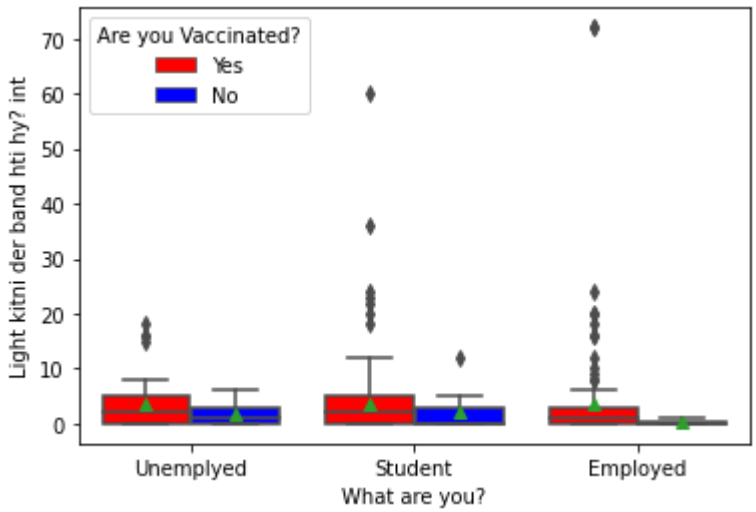


08- calculating the mean

In [35]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
```

```
# Load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="What are you?",y="Light kitni der band hti hy? int"
            ,saturation=1,
            data=chilla_data, hue="Are you Vaccinated?", orient="v",
            palette={"Yes":"red","No":"blue"}, showmeans=True)
plt.show()
```

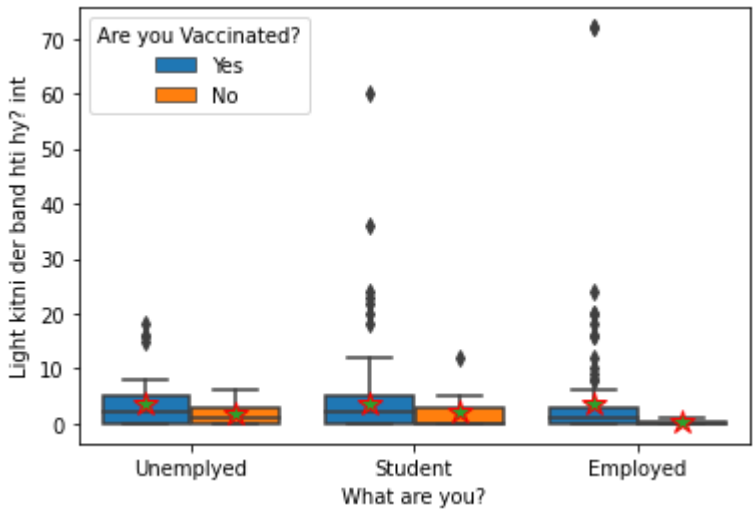


09- Adding mean props

In [38]:

```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# Load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="What are you?",y="Light kitni der band hti hy? int"
            ,saturation=1,
            data=chilla_data, hue="Are you Vaccinated?",  showmeans=True, meanprops= {"
                                                          "markersize":"12",
                                                          "markeredgecolor":"re

plt.show()
```



10- Adding x, y-label and title

In [44]:
```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
# Load dataset
chilla_data=pd.read_csv("Chilla_data2_for_plots.csv")
sns.boxplot(x="What are you?",y="Height in cm? Freelancer- (Float)"
            ,saturation=1,
            data=chilla_data, hue="Are you Vaccinated?",  showmeans=True, meanprops= {"
                                                                "markersize":"12",
                                                                "markeredgecolor":"re
plt.xlabel("employed or unemployed", size=10),
plt.ylabel("height in cm", size=10),
plt.title("box plot of between employed, unemployed, students and their height", size=1
plt.show()
```