# **Assignment 2-Day 4**

# Question 1: Why more than one variables are not being used in x axis

### **Answer**

The box plot mainly plots one variable of dataset on x axis.

#### **Practice**

Out[84]:

```
In [6]: import seaborn as sns
import numpy
import matplotlib.pyplot as plt
import pandas as pd

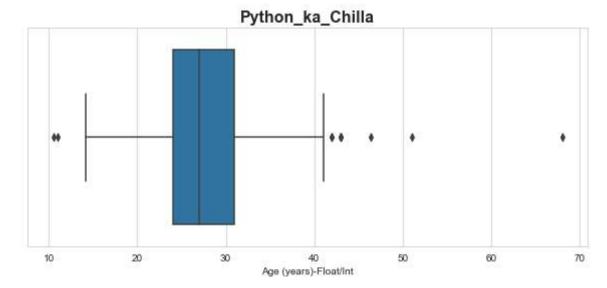
clean_data=pd.read_excel("Cleaned_Dataset.xlsx")

In [84]: clean_data.head(3)
```

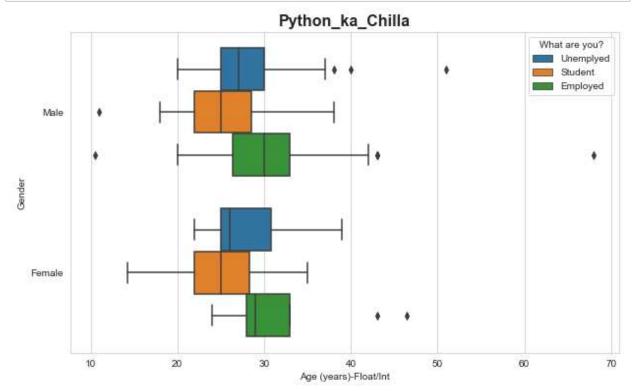
What are I Gender Location Age Qualification\_completed field\_of\_study Purpose\_for\_chilla you? و

```
36-
                                                                 Natural
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 2
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              Pakistan
                                                Masters
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                          35
                                                                                         study
3 rows × 23 columns
```

```
In [39]: plt.figure(figsize=(10,4)) # setting figure size
    sns.set_style("whitegrid") # setting tyle
    sns.boxplot(x="Age (years)-Float/Int", data=clean_data)
    plt.title("Python_ka_Chilla", weight="bold", size=16)
    plt.show()
```



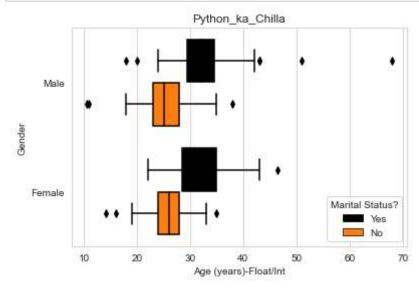
```
In [85]: plt.figure(figsize=(10,6)) # setting figure size
    sns.set_style("whitegrid") # setting tyle
    sns.boxplot(x="Age (years)-Float/Int", y= "Gender", hue="What are you?", data=cle
    plt.title("Python_ka_Chilla", weight="bold", size=16)
    plt.show()
```



# Question 2: How to change hue color mannually?

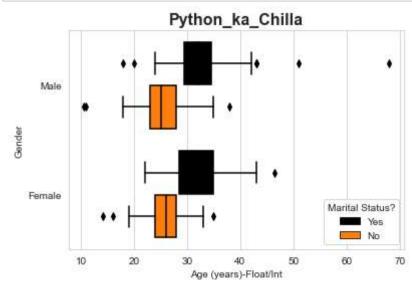
# **Answer**

#### Method 1



#### Method 2

This method is proper than method 1 like when we have different graphs containing some common and some different variables, we do not need to describe palette again and again, just declare it once. And in this same variables have same colors that is needed.



## Question 3- What facecolor combination tells us?

### **Answer**

Facecolor has four digits in range of 0-1; facecolor(Red,Blue,Green,Opacity). Combining red, blue and green colors are formed and last digits manages the opacity of the color.

# Question 4- Why v variable in Orient was Showing Error?

## **Answer**

For orient it is necessary that; for horizontal (h) x axis should be numeric and for vertical (v) y axis should be numeric.

#### **Proof**

