In [7]:

```
from ipywidgets import widgets
from IPython.display import display, clear_output
import pandas as pd
import matplotlib.pyplot as plt
from tkinter import Tk, filedialog

graph_type = ['Choose one.. ','line','bar']
df = ''
def select_files(b):
    clear_output()
    global graph_type
    global df
    root = Tk()
    root.withdraw()
    file_name = filedialog.askopenfilename()
    df=pd.read_csv(file_name)
    print(file_name)
    xlabel_widget=widgets.Dropdown(options=df.columns)
    ylabel_widget=widgets.Dropdown(options=df.columns)
    graph_widget=widgets.Dropdown(options=graph_type)
    graph = widgets.interactive(display_plot,xaxis=xlabel_widget,yaxis=ylabel_widget,graph_
    display(graph)
def display_plot(xaxis,yaxis,graph_type):
    global df
    if(graph_type=='line'):
        plt.subplots(figsize=(19,8))
        plt.plot(df[xaxis],df[yaxis],linewidth=3.0)
        plt.xlabel(xaxis)
        plt.ylabel(yaxis)
        plt.xticks(rotation='vertical')
        plt.show()
    elif(graph_type=='bar'):
        plt.subplots(figsize=(19,8))
        plt.bar(df[xaxis],df[yaxis],color=['red','green','blue','yellow','orange','pink','b
        plt.xlabel(xaxis)
        plt.ylabel(yaxis)
        plt.xticks(rotation='vertical')
        plt.show()
    else:
        print('Error To Generate The Graphy')

fileselect = widgets.Button(description="File select")
fileselect.on_click(select_files)
display(fileselect)
```

```
A:/Python Files/c199-cw/percentage.csv
```

xaxis	Name
yaxis	Percentage
graph_type	bar

In [ ]: