**Appendices**:

**Coding to get the result of figure 2:**

from tkinter import \*  
from tkinter import ttk  
import yfinance as yf  
import pandas as pd  
import matplotlib.pyplot as plt  
from tkcalendar import DateEntry  
  
*# Define a function to get the stock data and draw the graph*def get\_data():  
 ticker = combo\_box.get()  
 start\_date = start\_date\_entry.get\_date().strftime('%Y-%m-%d')  
 end\_date = end\_date\_entry.get\_date().strftime('%Y-%m-%d')  
 data = yf.download(ticker, start=start\_date, end=end\_date)  
 data = data[['Open', 'High', 'Low', 'Adj Close']]  
 data\_frame.configure(text=data.to\_string())  
 plt.plot(data['Adj Close'])  
 plt.xlabel('Date')  
 plt.ylabel('Price')  
 plt.title(ticker)  
 plt.show()  
  
*# Create the main window*root = Tk()  
root.title('Stock Data')  
root.option\_add("\*Font", "TkDefaultFont 14")  
  
*# Create the left frame*left\_frame = Frame(root)  
left\_frame.pack(side=LEFT, padx=10, pady=10)  
  
*# Add the combobox*ticker\_options = ['AAPL', 'AMZN', 'GOOG', 'TSLA', 'MSFT', 'FB', 'NFLX', 'NVDA', 'PYPL', 'INTC']  
combo\_box = ttk.Combobox(left\_frame, values=ticker\_options)  
combo\_box.pack(padx=10, pady=10)  
  
*# Add the start date and end date datepickers*start\_date\_label = Label(left\_frame, text='Start Date:')  
start\_date\_label.pack(padx=10, pady=10)  
start\_date\_entry = DateEntry(left\_frame, width=12, font=('TkDefaultFont', 14))  
start\_date\_entry.pack(padx=10, pady=10)  
end\_date\_label = Label(left\_frame, text='End Date:')  
end\_date\_label.pack(padx=10, pady=10)  
end\_date\_entry = DateEntry(left\_frame, width=12, font=('TkDefaultFont', 14))  
end\_date\_entry.pack(padx=10, pady=10)  
  
*# Add the submit button*submit\_button = Button(left\_frame, text='Submit', command=get\_data)  
submit\_button.pack(padx=10, pady=10)  
  
*# Create the right frame*right\_frame = Frame(root)  
right\_frame.pack(side=RIGHT, padx=10, pady=10)  
  
*# Add the data frame and graph*data\_frame = Label(right\_frame, text='', font=('TkDefaultFont', 14))  
data\_frame.pack(padx=10, pady=10)  
graph\_frame = Frame(right\_frame)  
graph\_frame.pack(padx=10, pady=10)  
  
*# Run the main loop*root.mainloop()

**Coding to get the result of figure 3:**

**import** yfinance **as** yf  
**import** tkinter **as** tk  
**from** tkinter **import** ttk  
**def** update\_ticker\_info():  
 ticker = combo.get()  
 prices = yf.download(ticker)  
 last\_ten = prices[**'Adj Close'**].tail(**10**).apply(**lambda** x: round(x, **3**))  
 ticker\_name = last\_ten.to\_frame(name=ticker)  
 each\_margin = round(last\_ten.mean(), **3**)  
 each\_risk = round(last\_ten.std(), **3**)  
 text.delete(**'1.0'**, tk.END)  
 text.insert(tk.END, **f"**{ticker} **Stock Information:** \n{ticker\_name.to\_string()}\n**"**, **"center"**)  
 label1.config(text=**f"Average Return:** {each\_margin:**.3f**}**"**)  
 label2.config(text=**f"Average Risk:** {each\_risk:**.3f**} **%"**)  
window = tk.Tk()  
window.title(**"Stock List"**)  
window.geometry(**"500x500"**)  
window.geometry(**"+{}+{}"**.format(**600**, **150**))  
tickers = [**'AAPL'**, **'MSFT'**, **'AMZN'**, **'TSLA'**, **'GOOG'**, **'NVDA'**, **'JPM'**, **'V'**, **'JNJ'**]  
combo = ttk.Combobox(window, values=tickers)  
combo.pack()  
button = tk.Button(window, text=**"Update"**, command=update\_ticker\_info)  
button.pack()  
text = tk.Text(window, width=**50**, height=**15**, font = (**'Courier'**, **15**))  
text.tag\_configure(**"center"**, justify=**"center"**)  
text.pack()  
label1 = tk.Label(window, text=**""** , font = (**'Courier'**, **15**))  
label2 = tk.Label(window, text=**""** , font = (**'Courier'**, **15**))  
label1.pack()  
label2.pack()  
window.mainloop()