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Ecommerce Electronic Products Sales Forecasting System

PYTHON PROGRAMMING

(INT 213)

SUBMITTED BY:

APRENDU AMAN [12016997]

SHIVAM HOODA [12016991]

ARYAMAN SURI [12016994]

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

FACULTY: - MR. ISHAN KUMAR

CONTENT

ACKNOWLEDGEMENT

Our Team of three people (Aprendu, Shivam and Aryaman) give a heartful thanks to our PYTHON PROGRAMMING faculty MR. ISHAN KUMAR for granting us this topic and helping us to accomplish the skills needed for its development

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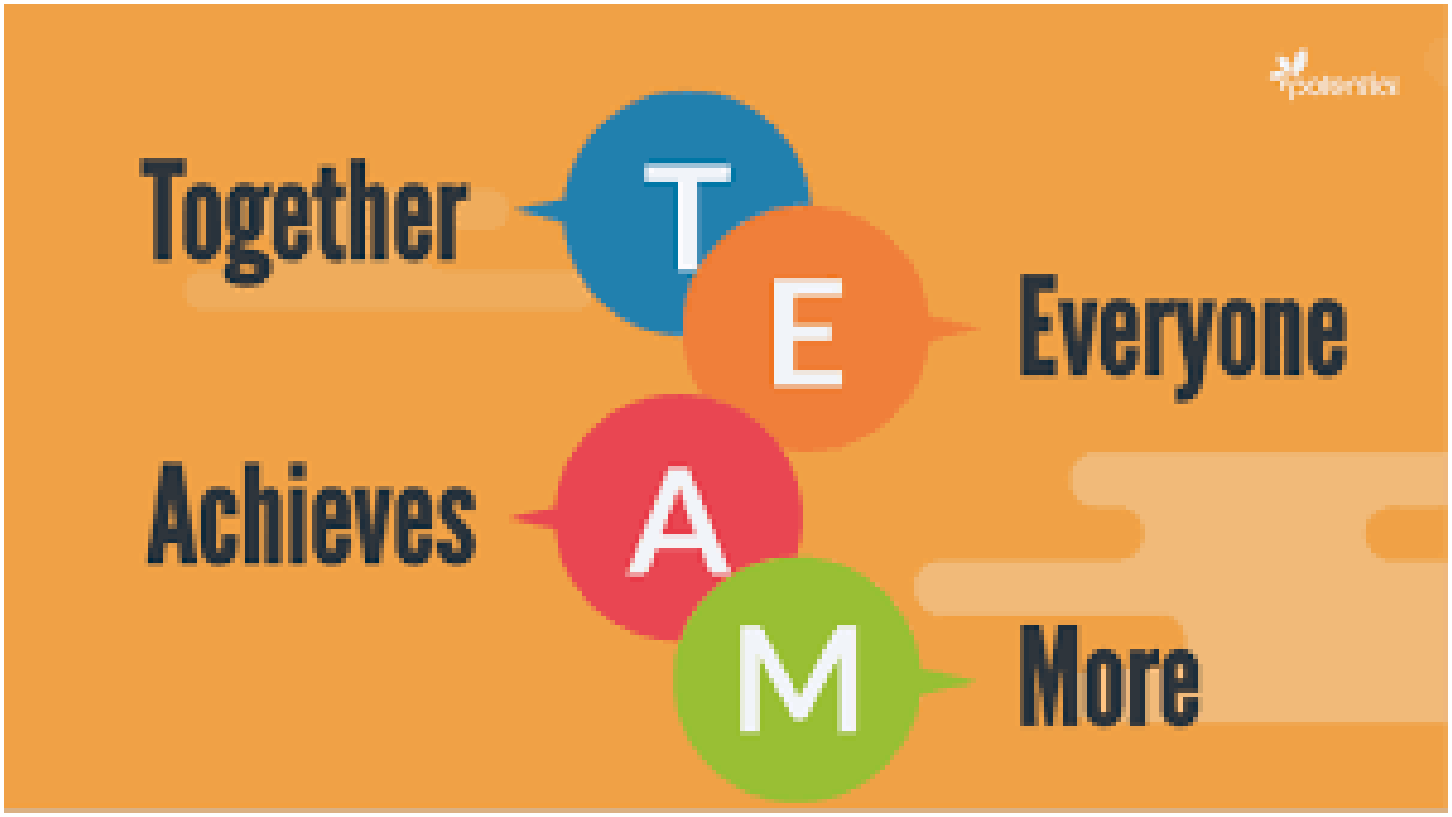
Our Team Comprises of: -

- **ARENDU AMAN**
- **SHIVAM HOODA**
- **ARYAMAN SURI**



BY THE HELP OF TEAM

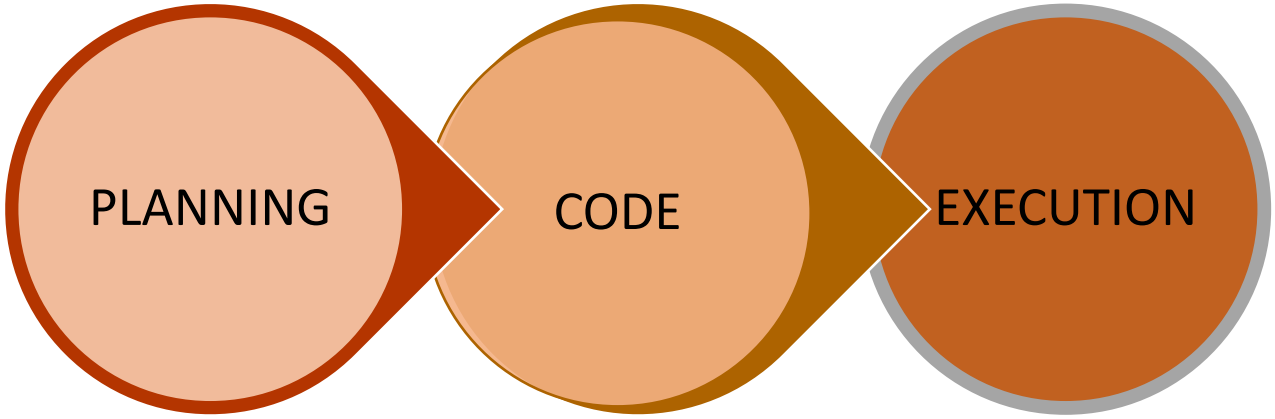
WE WERE ABLE TO PULL UP THE CODE AND TO MAKE THE PROJECT THAT WAS ASSIGNED TO US.

What is a sales forecasting system

Forecasting usually means to make an assumption regarding any of the subject or opinion.

It means to predict how much or what is the probable value by which the outcome is viable.

In our project "ELECTRONIC SALES FORCASTING SYSTEM" some thing similar happens as in this project we comprise of 3 different electronic products with options to fill selling price, buying price and discount calculation, and the last year or last term sales, which helps us to predict the close value of sales which we can expect in the upcoming financial term/year.



PLANNING PART TOOK ALMOST A WEEEK TO MAKE THE PROJECT AND HERE THE CODE PART STARTS.

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen

Search (Ctrl+Q)

forecast.py

```
import tkinter
from tkinter import *
from tkinter import messagebox

def nextIspressed():
    labeltext.destroy()
    labeltext1.destroy()
    labeltext2.destroy()
    labeltext3.destroy()
    labeltext4.destroy()
    labeltext5.destroy()
    labeltext6.destroy()
    labeltex2.destroy()
    labeltex3.destroy()
    labeltex4.destroy()
    labeltex6.destroy()
    labelimage2.destroy()
    labelimage3.destroy()
    labelimage4.destroy()
    e1.destroy()
    e2.destroy()
    e3.destroy()
    e4.destroy()
    e5.destroy()
    e6.destroy()
    e7.destroy()
    e8.destroy()
    btnnext.destroy()
    product2()

def product():
```

110 % No issues found Ln: 1 Ch: 1 OVR SPC CRLF

Ready Add to Source Control

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen

Search (Ctrl+Q)

forecast.py

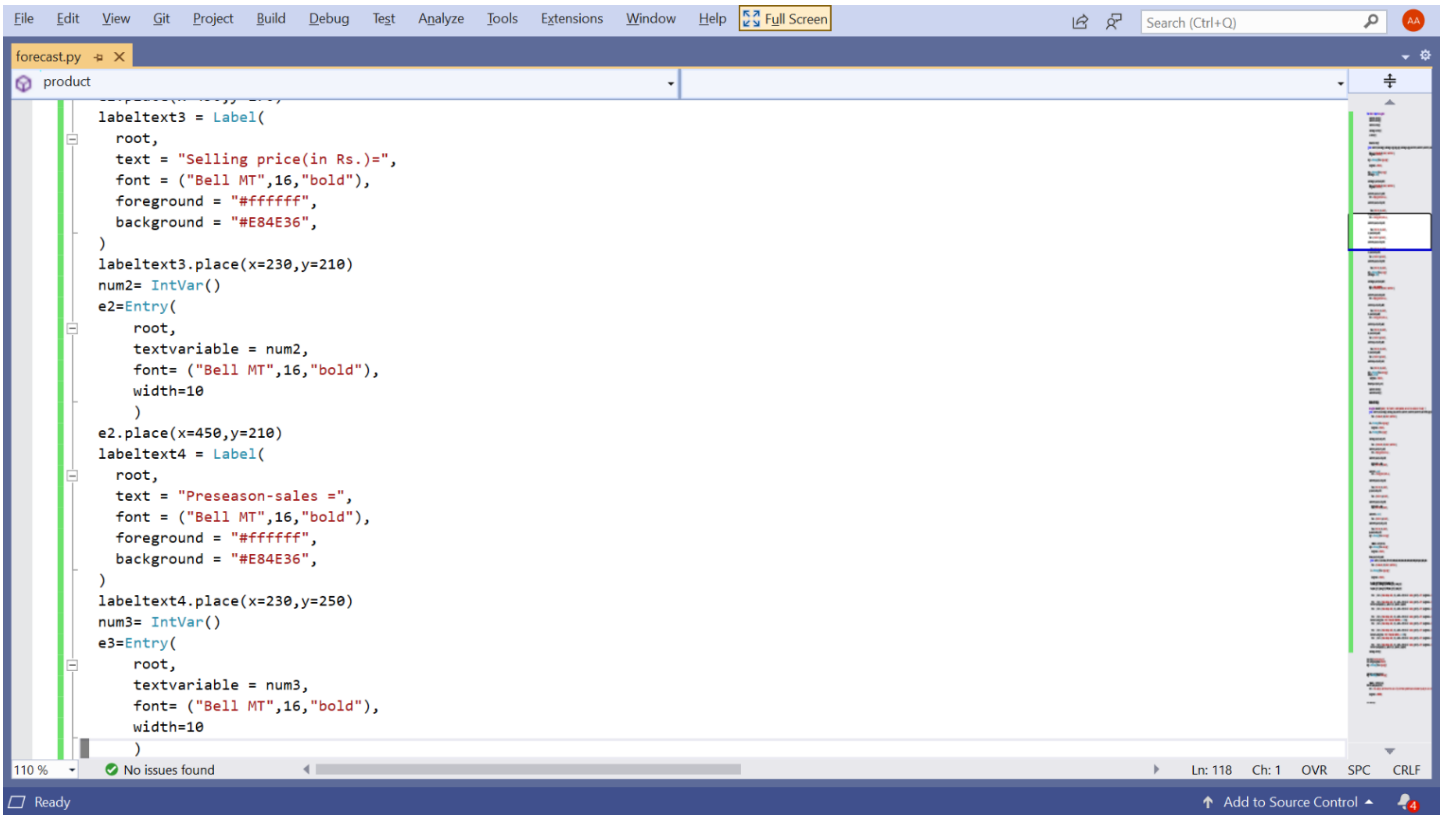
product

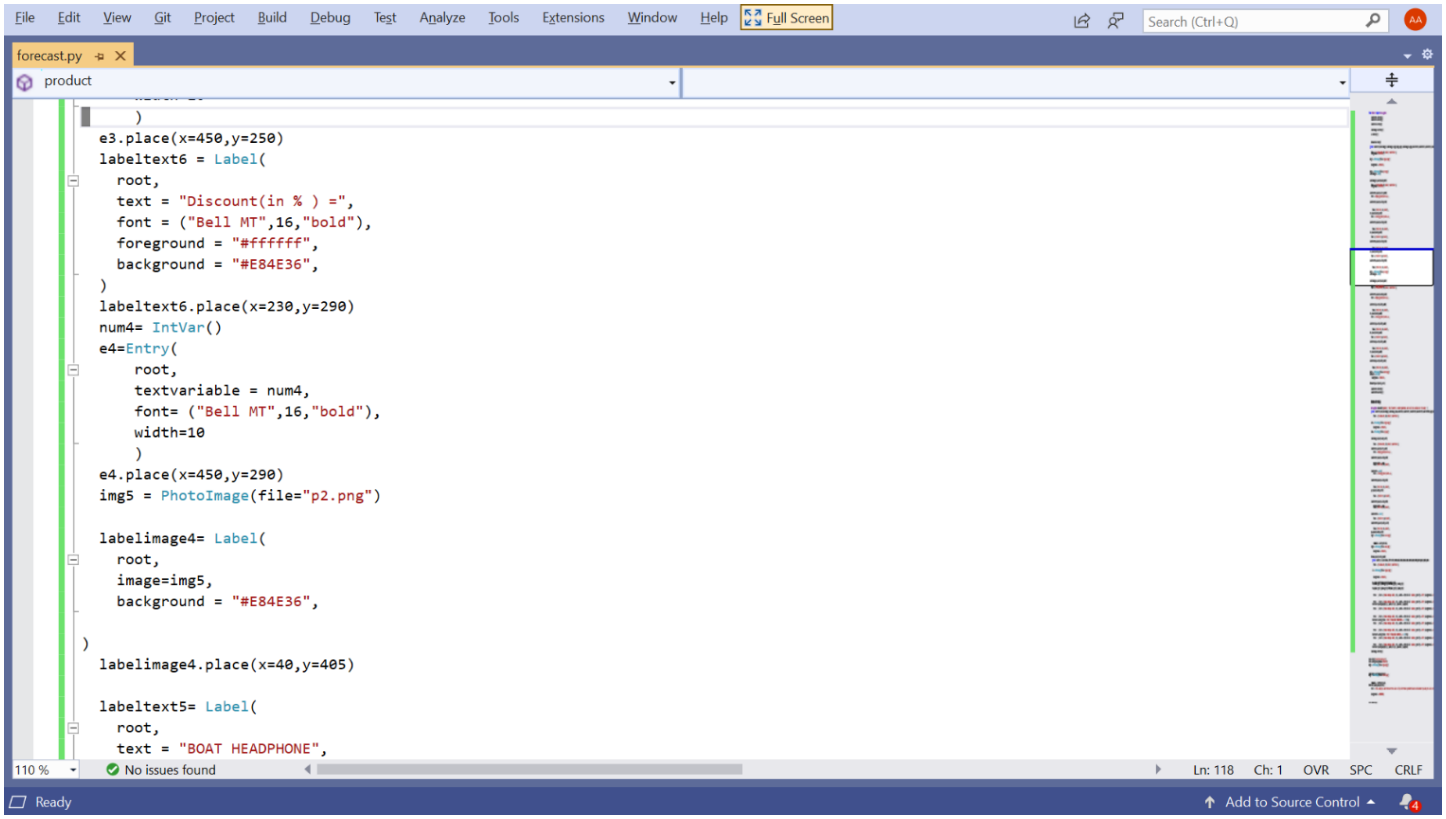
```
)
  labelimage3.place(x=40,y=185)
  labeltext1 = Label(
    root,
    text = "ACER LAPTOP",
    font = ("Bernard MT",28,"bold","underline"),
    foreground = "#ffffff",
    background = "#E84E36",


)
  labeltext1.place(x=275,y=100)
  labeltext2 = Label(
    root,
    text = "Buying price(in Rs.)=",
    font = ("Bell MT",16,"bold"),
    foreground = "#ffffff",
    background = "#E84E36",
  )
  labeltext2.place(x=230,y=170)
  num1= IntVar()

  e1=Entry(
      root,
      textvariable = num1,
      font= ("Bell MT",16,"bold"),
      width=10
      )
  e1.place(x=450,y=170)
  labeltext3 = Label(
    root,
```

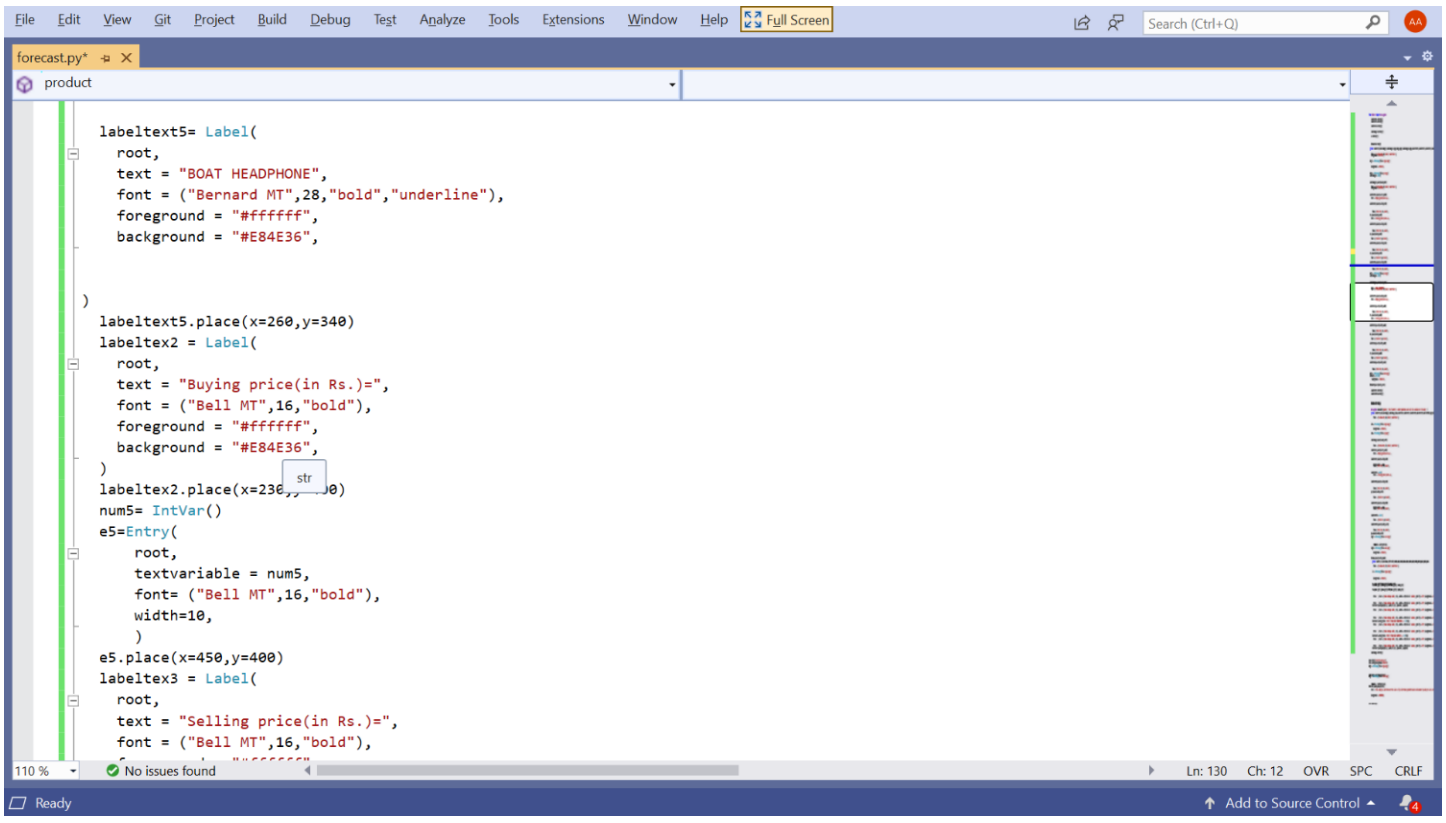
110 % No issues found Ln: 89 Ch: 1 OVR SPC CRLF

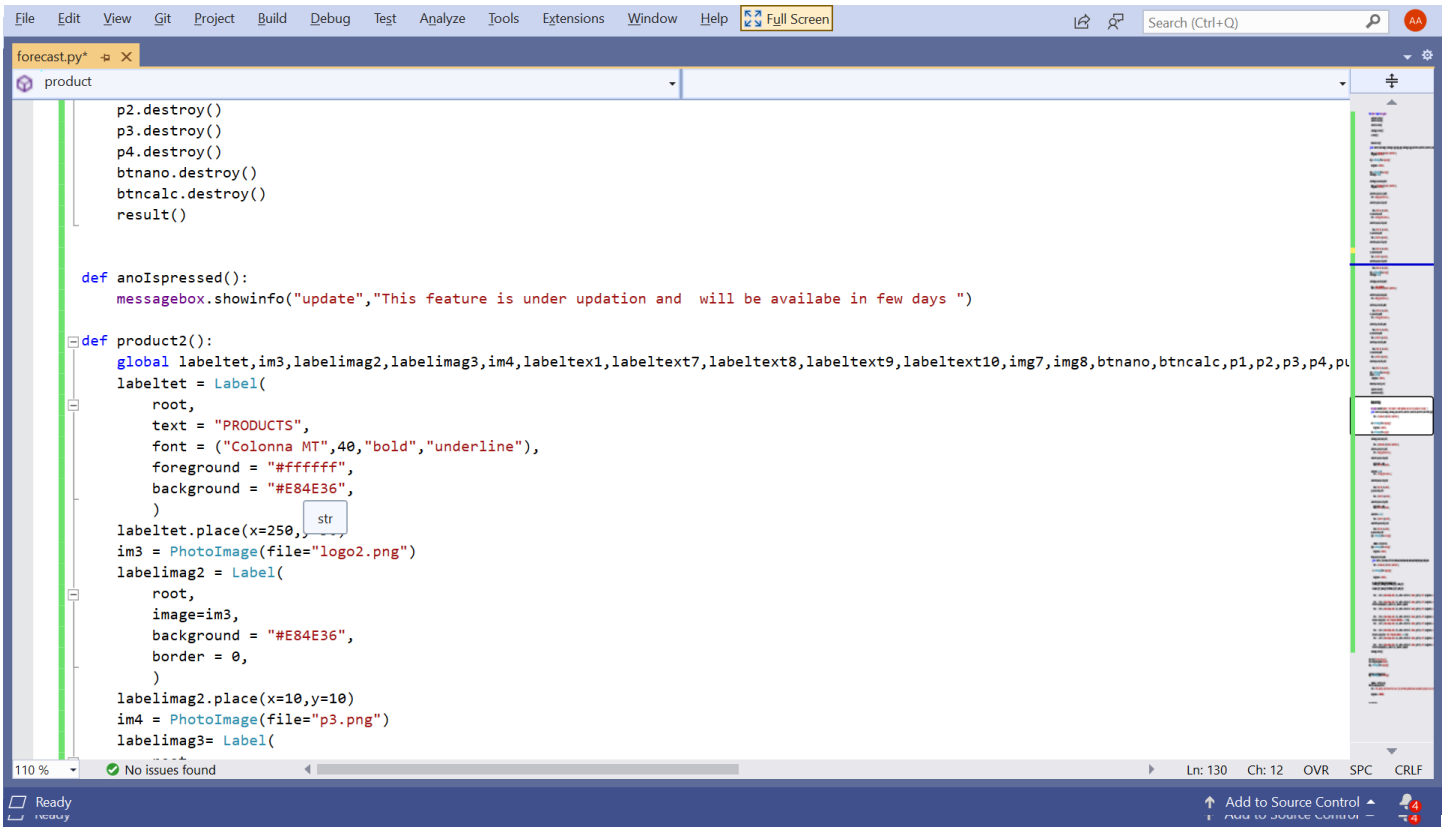
Ready Add to Source Control

Ready Add to Source Control

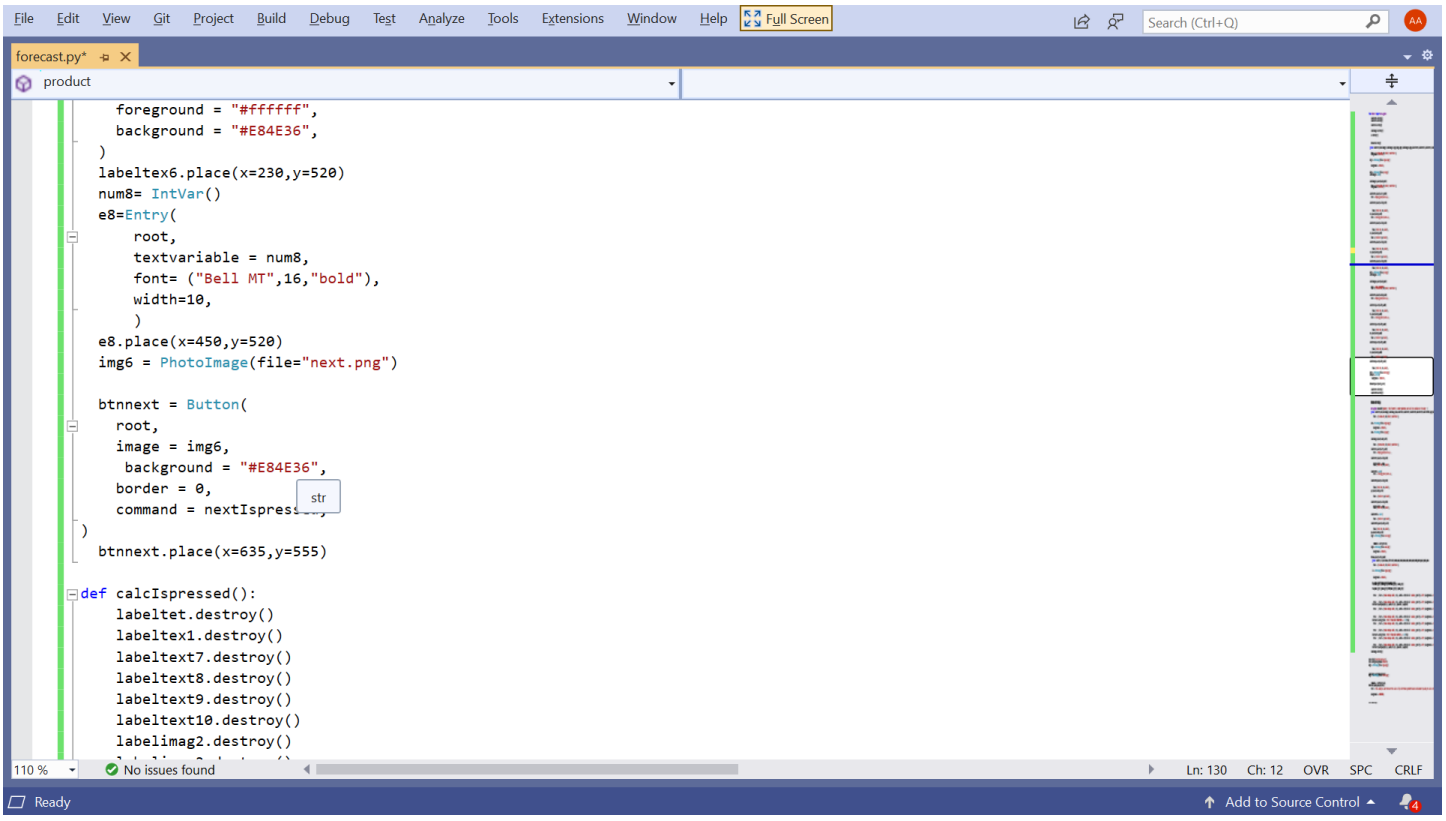

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen
Search (Ctrl+Q)
forecast.py
product
labeltext3 = Label(
root,
text = "Selling price(in Rs.)=",
font = ("Bell MT",16,"bold"),
foreground = "#ffffff",
background = "#E84E36",
)
labeltext3.place(x=230,y=210)
num2= IntVar()
e2=Entry(
root,
textvariable = num2,
font= ("Bell MT",16,"bold"),
width=10
)
e2.place(x=450,y=210)
labeltext4 = Label(
root,
text = "Preseason-sales =",
font = ("Bell MT",16,"bold"),
foreground = "#ffffff",
background = "#E84E36",
)
labeltext4.place(x=230,y=250)
num3= IntVar()
e3=Entry(
root,
textvariable = num3,
font= ("Bell MT",16,"bold"),
width=10
)
110 %
No issues found
Ln: 118 Ch: 1 OVR SPC CRLF
Ready
Add to Source Control


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen
Search (Ctrl+Q)
forecast.py
product
)
e3.place(x=450,y=250)
labeltext6 = Label(
root,
text = "Discount(in %) =",
font = ("Bell MT",16,"bold"),
foreground = "#ffffff",
background = "#E84E36",
)
labeltext6.place(x=230,y=290)
num4= IntVar()
e4=Entry(
root,
textvariable = num4,
font= ("Bell MT",16,"bold"),
width=10
)
e4.place(x=450,y=290)
img5 = PhotoImage(file="p2.png")
labelimage4= Label(
root,
image=img5,
background = "#E84E36",
)
labelimage4.place(x=40,y=405)
labeltext5= Label(
root,
text = "BOAT HEADPHONE",
110 %
No issues found
Ln: 118 Ch: 1 OVR SPC CRLF
Ready
Add to Source Control

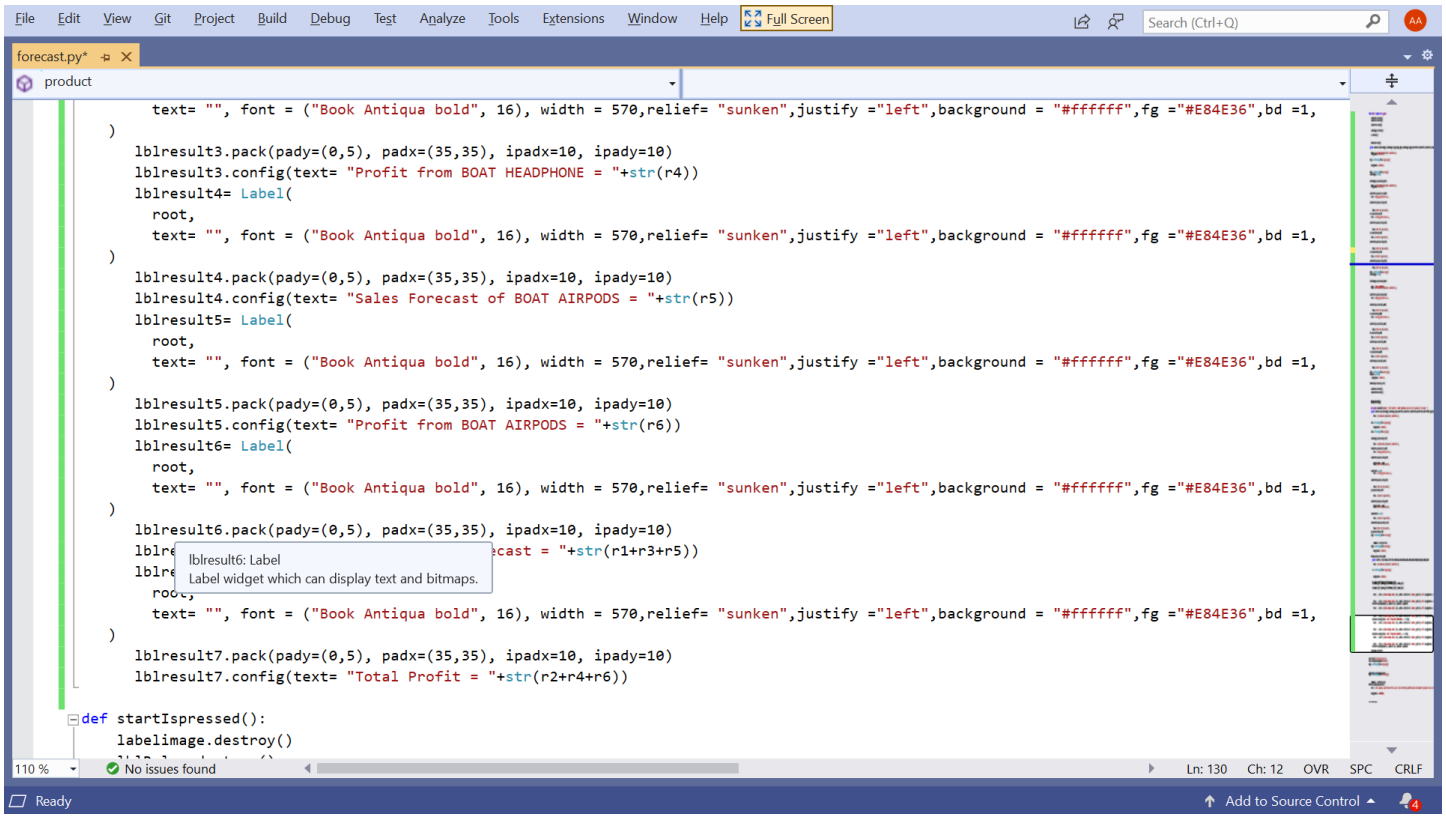

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Full Screen
Search (Ctrl+Q)
forecast.py*
product
labeltext5= Label(
root,
text = "BOAT HEADPHONE",
font = ("Bernard MT",28,"bold","underline"),
foreground = "#ffffff",
background = "#E84E36",
)
labeltext5.place(x=260,y=340)
labeltex2 = Label(
root,
text = "Buying price(in Rs.)=",
font = ("Bell MT",16,"bold"),
foreground = "#ffffff",
background = "#E84E36",
)
str
num5= IntVar()
e5=Entry(
root,
textvariable = num5,
font= ("Bell MT",16,"bold"),
width=10,
)
e5.place(x=450,y=400)
labeltex3 = Label(
root,
text = "Selling price(in Rs.)=",
font = ("Bell MT",16,"bold"),
110 %
No issues found
Ln: 130 Ch: 12 OVR SPC CRLF
Ready
Add to Source Control



```
    p2.destroy()
    p3.destroy()
    p4.destroy()
    btnano.destroy()
    btncalc.destroy()
    result()


def anoIspressed():
    messagebox.showinfo("update","This feature is under updation and  will be availabe in few days ")

def product2():
    global labeltet,im3,labelimag2,labelimag3,im4,labeltex1,labeltext7,labeltext8,labeltext9,labeltext10,img7,img8,btnano,btncalc,p1,p2,p3,p4,pu
    labeltet = Label(
        root,
        text = "PRODUCTS",
        font = ("Colonna MT",40,"bold","underline"),
        foreground = "#ffffff",
        background = "#E84E36",
        )
    labeltet.place(x=250,
    im3 = PhotoImage(file="logo2.png")
    labelimag2 = Label(
        root,
        image=im3,
        background = "#E84E36",
        border = 0,
        )
    labelimag2.place(x=10,y=10)
    im4 = PhotoImage(file="p3.png")
    labelimag3= Label(
```

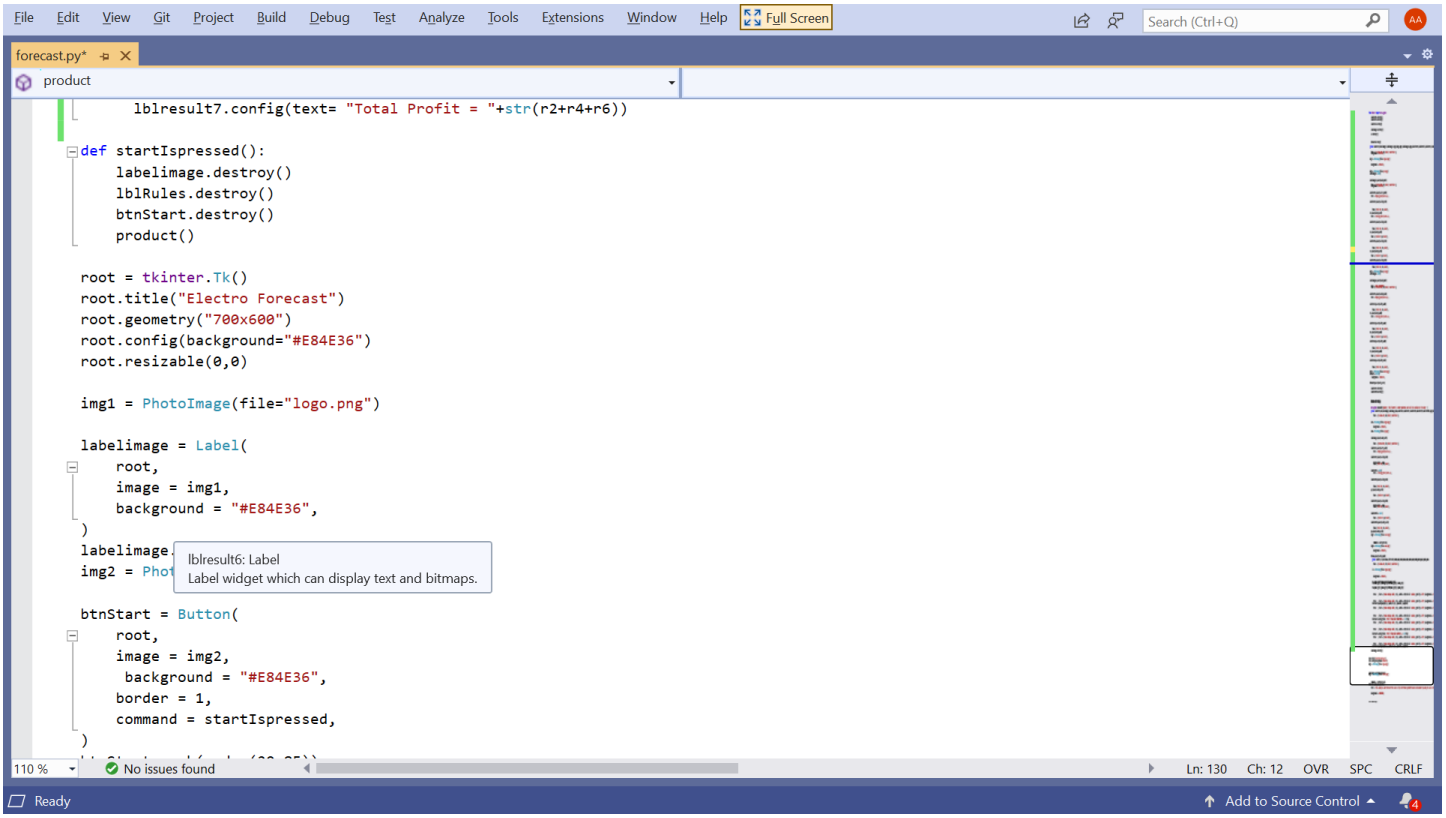



```
    foreground = "#ffffff",
    background = "#E84E36",
  )
  labeltex6.place(x=230,y=520)
  num8= IntVar()
  e8=Entry(
      root,
      textvariable = num8,
      font= ("Bell MT",16,"bold"),
      width=10,
      )
  e8.place(x=450,y=520)
  img6 = PhotoImage(file="next.png")

  btnnext = Button(
    root,
    image = img6,
     background = "#E84E36",
    border = 0,
    command = nextIspress
  )
  btnnext.place(x=635,y=555)

def calcIspressed():
    labeltet.destroy()
    labeltex1.destroy()
    labeltext7.destroy()
    labeltext8.destroy()
    labeltext9.destroy()
    labeltext10.destroy()
    labelimag2.destroy()
```



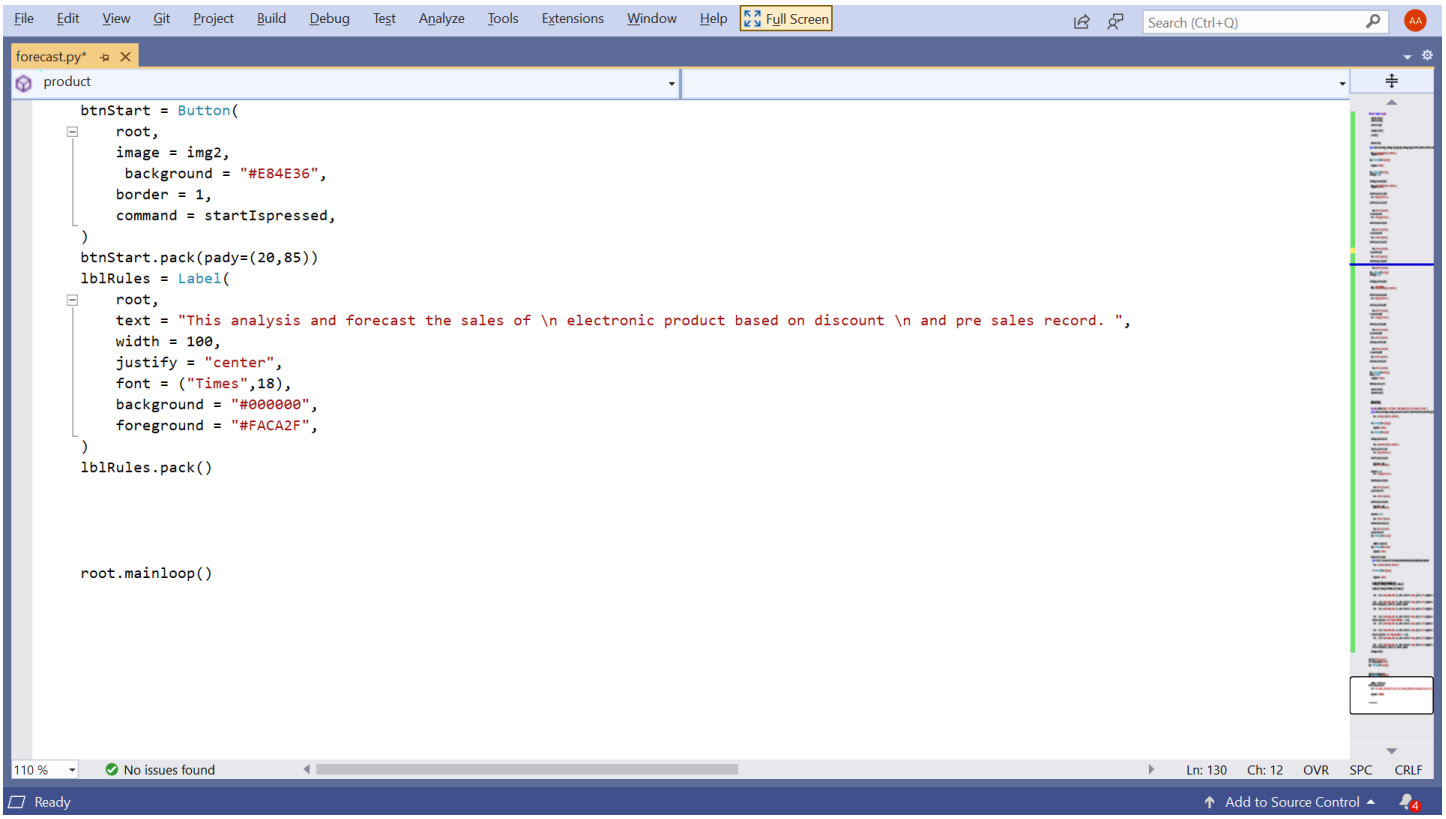
```
        text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult3.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult3.config(text= "Profit from BOAT HEADPHONE = "+str(r4))
        lblresult4= Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult4.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult4.config(text= "Sales Forecast of BOAT AIRPODS = "+str(r5))
        lblresult5= Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult5.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult5.config(text= "Profit from BOAT AIRPODS = "+str(r6))
        lblresult6= Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult6.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblre                                                    cast = "+str(r1+r3+r5))
        lblre
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult7.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult7.config(text= "Total Profit = "+str(r2+r4+r6))

def startIspressed():
    labelimage.destroy()
```

lblresult6: Label
Label widget which can display text and bitmaps.

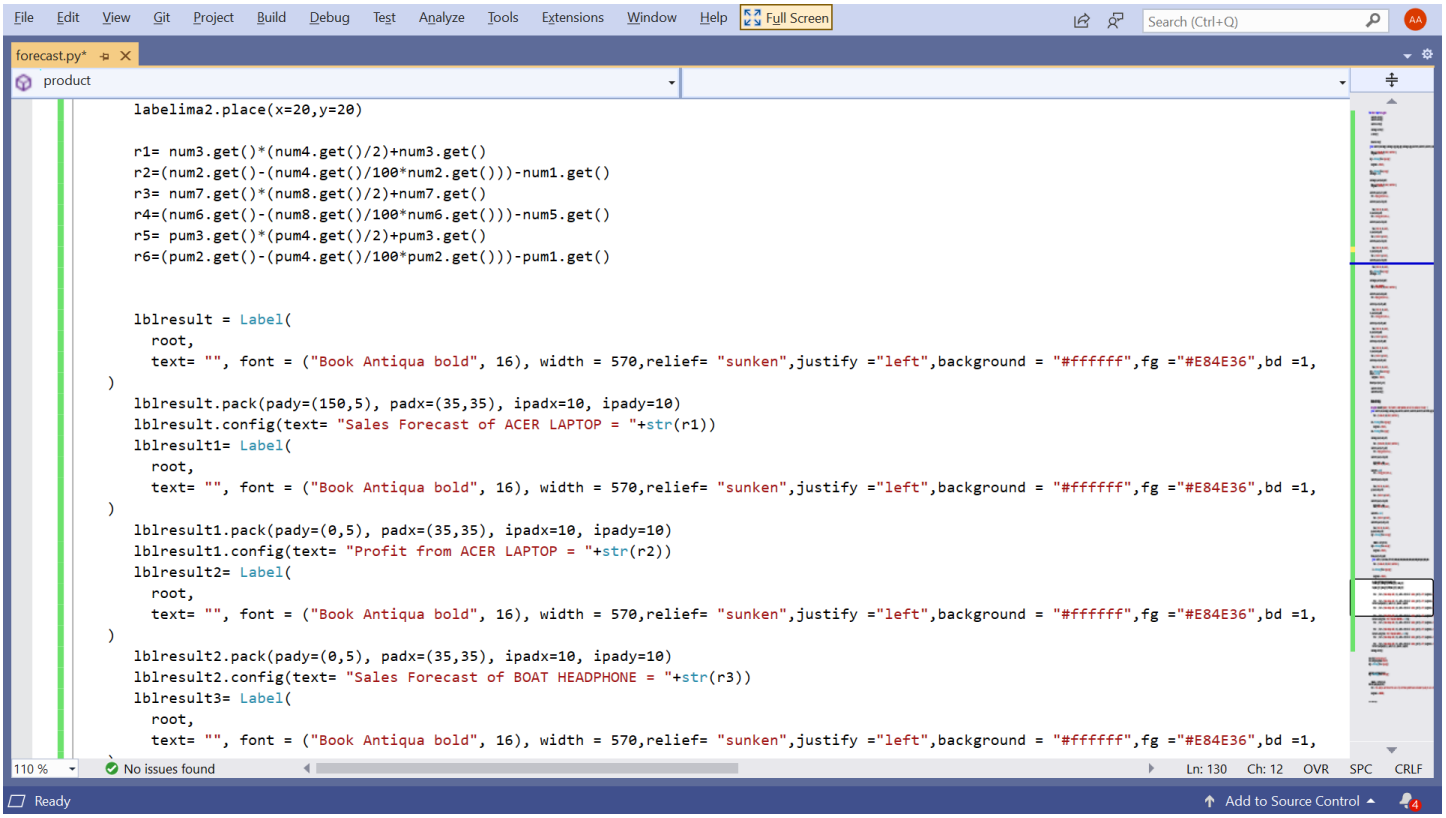


```
        lblresult7.config(text= "Total Profit = "+str(r2+r4+r6))

def startIspressed():
    labelimage.destroy()
    lblRules.destroy()
    btnStart.destroy()
    product()

root = tkinter.Tk()
root.title("Electro Forecast")
root.geometry("700x600")
root.config(background="#E84E36")
root.resizable(0,0)

img1 = PhotoImage(file="logo.png")

labelimage = Label(
    root,
    image = img1,
    background = "#E84E36",
)
labelimage.
img2 = Phot

btnStart = Button(
    root,
    image = img2,
     background = "#E84E36",
    border = 1,
    command = startIspressed,
)
```

lblresult6: Label
Label widget which can display text and bitmaps.



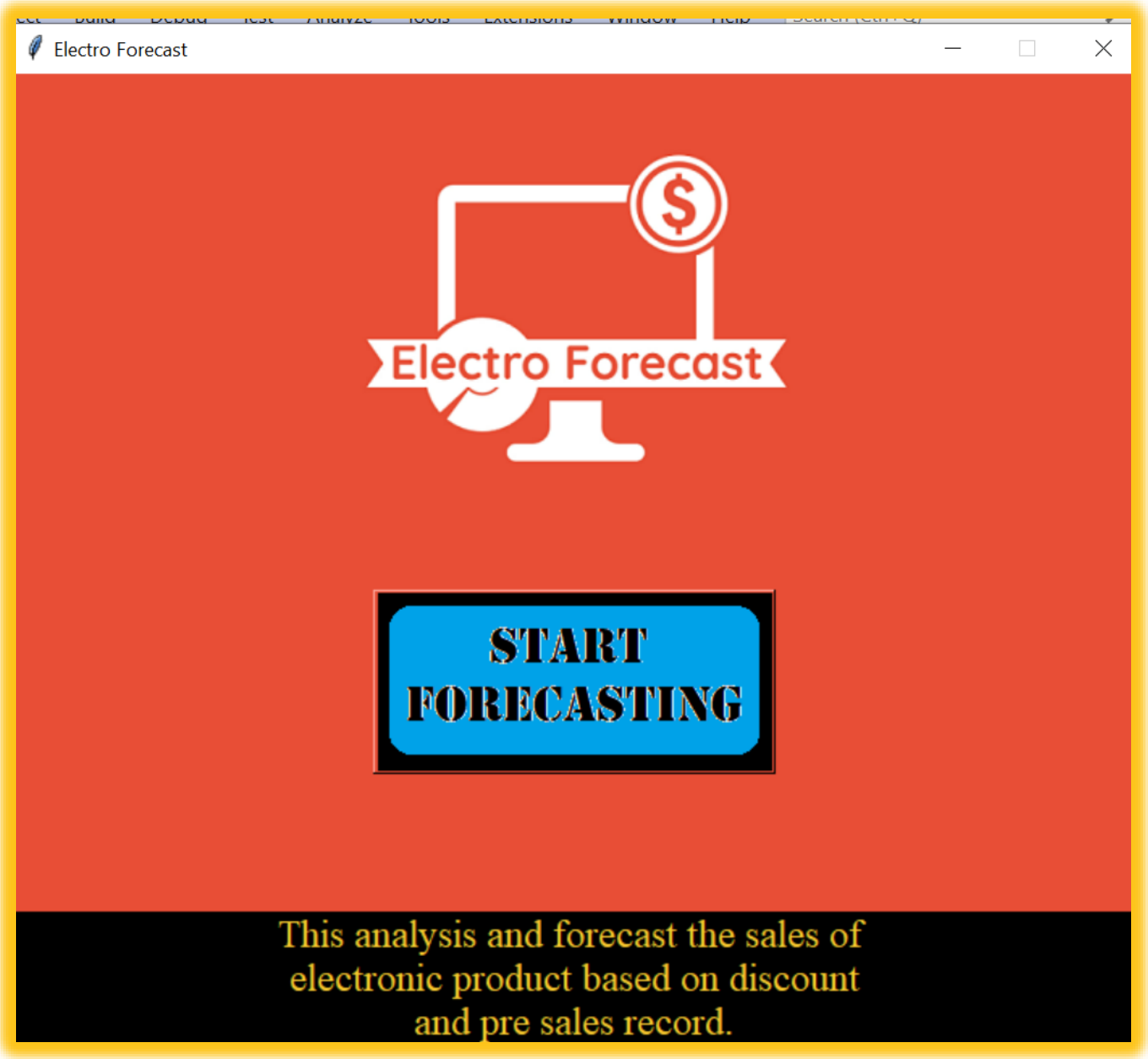
```
    btnStart = Button(
        root,
        image = img2,
         background = "#E84E36",
        border = 1,
        command = startIspressed,
    )
    btnStart.pack(pady=(20,85))
    lblRules = Label(
        root,
        text = "This analysis and forecast the sales of \n electronic product based on discount \n and pre sales record. ",
        width = 100,
        justify = "center",
        font = ("Times",18),
        background = "#000000",
        foreground = "#FACA2F",
    )
    lblRules.pack()



    root.mainloop()
```



```
        labelima2.place(x=20,y=20)

        r1= num3.get()*(num4.get()/2)+num3.get()
        r2=(num2.get()-(num4.get()/100*num2.get()))-num1.get()
        r3= num7.get()*(num8.get()/2)+num7.get()
        r4=(num6.get()-(num8.get()/100*num6.get()))-num5.get()
        r5= pum3.get()*(pum4.get()/2)+pum3.get()
        r6=(pum2.get()-(pum4.get()/100*pum2.get()))-pum1.get()


        lblresult = Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult.pack(pady=(150,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult.config(text= "Sales Forecast of ACER LAPTOP = "+str(r1))
        lblresult1= Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult1.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult1.config(text= "Profit from ACER LAPTOP = "+str(r2))
        lblresult2= Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
    )
        lblresult2.pack(pady=(0,5), padx=(35,35), ipadx=10, ipady=10)
        lblresult2.config(text= "Sales Forecast of BOAT HEADPHONE = "+str(r3))
        lblresult3= Label(
          root,
          text= "", font = ("Book Antiqua bold", 16), width = 570,relief= "sunken",justify ="left",background = "#ffffff",fg ="#E84E36",bd =1,
```

Here code part ends, and execution begun.

This is the welcome part of the project or the face of the object



The logo used in the above slide is just a picture followed by a button with the label at the Bottom and the use of background can be seen.

>>NEXT>>

After the following button has been pressed, the next slide gets followed destroying the content and creating the new one that can be seen as follows:

In the above picture the logo is placed at the top left, followed by the label and after the description of the products by the help of photos, label as well as entries. At the bottom right a customised button with an arrow is placed which when activated destroys the current running content and constructs the new content

>>NEXT>>

Same description of the product followed by the two buttons placed adjacent to one another, one leads to the summary or execution of the FORCAST while other lets you to add new products.

When "ADD ANOTHER PRODUCT" is executed:

An info dialogue box appears as the feature is still in development process.

When "CALCULATE FORECAST" is executed:

The results label followed by the execution of the forecast is seen.

THAT IS THE END OF THE PROJECT

REFRENCE