```
In [16]: #Iris data set Project
                  import pandas as pd
                  from sklearn.neighbors import KNeighborsClassifier
                  df=pd.read csv("iris.csv")
                  df.head()
                  features=df.iloc[:,:-1].values
                  target=df.iloc[:,-1:].values
                  knc=KNeighborsClassifier()
                  knc.fit(features, target)
                C: \ Users \ lambda \ Lib \ site-packages \ klearn \ neighbors \ \_classification.py: 238: \ Data Conversion \ Warning: A conversion \ Warning: A conversion \ Variable \ Lib \ Lib \ Lib \ A conversion \ Variable \ Lib \ L
                lumn-vector y was passed when a 1d array was expected. Please change the shape of y to (n_samples,), for example
                using rayel().
                   return self._fit(X, y)
Out[16]: V KNeighborsClassifier
                 KNeighborsClassifier()
  In [7]: def iris():
                          sepallength=float(sl entry.get())
                          sepalwidth=float(sw_entry.get())
                          petallength=float(pl entry.get())
                          petalwidth=float(pw_entry.get())
                          prediction=knc.predict([[sepallength,sepalwidth,petallength,petalwidth]])
                          #print(prediction)
                          r entry.delete(0,END)
                          r_entry.insert(0,prediction[0])
                  def clearit():
                          r_entry.delete(0,END)
                          sl entry.delete(0,END)
                          sw entry.delete(0,END)
                          pl_entry.delete(0,END)
                          pw entry.delete(0,END)
                  #making frontend usinf ttkinter
                  from tkinter import *
                  win=Tk()
                  win.state("zoomed")
                  win.title("Iris Prediction Program")
                  win.configure(bg="magenta")
                  header=Frame(win)
                  header.configure(bg="pink")
                  header.place(x=0,y=0,relwidth=1,relheight=0.20)
                  title = Label(header,text = " Iris Prediction System ",font=('Verdana',40,'bold'))
                  title.pack()
                  body=Frame(win)
                  body.configure(bg="pink")
                  body.place(x=0,y=200,relwidth=1,relheight=0.80)
                  sepallength=Label(body,text="Sepal Length",font=("Verdana",20),bg="qhostwhite")
                  sepallength.place(relx=0.2,rely=0.1)
                  sepalwidth=Label(body,text="Sepal Width",font=("Verdana",20),bg="ghostwhite")
                  sepalwidth.place(relx=0.2, rely=0.25)
                  petallength=Label(body,text="Petal Length",font=("Verdana",20),bg="ghostwhite")
                  petallength.place(relx=0.2,rely=0.40)
                  petalwidth=Label(body,text="Petal Width",font=("Verdana",20),bg="ghostwhite")
                  petalwidth.place(relx=0.2,rely=0.55)
                  Result=Label(body,text="Result",font=("Verdana",20),bg="pink")
                  Result.place(relx=0.2, rely=0.67)
                  sl entry=Entry(body,font=("Verdana",20),bd=4)
                  sl entry.place(relx=0.4, rely=0.10)
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sw entry=Entry(body,font=("Verdana",20),bd=4)

pl_entry=Entry(body,font=("Verdana",20),bd=4)

pw entry=Entry(body,font=("Verdana",20),bd=4)

sw entry.place(relx=0.4, rely=0.25)

pl_entry.place(relx=0.4,rely=0.40)

pw entry.place(relx=0.4, rely=0.55)

```
r_entry=Entry(body,font=("Verdana",20),bd=2)
r_entry.place(relx=0.4,rely=0.67)

Predict=Button(body,text="Iris Prediction",font=("Verdana",20),bd=4,command=iris)
Predict.place(relx=0.4,rely=0.80)

Clear=Button(body,text="Clear",font=("Verdana",20),bd=4,command=clearit)
Clear.place(relx=0.6,rely=0.80)

win.mainloop()
```

In []:

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