Task 1 - Find the diabetic and hight blood pressure patients across all age groups, and conclude the risk heart stroke is higher in which age group

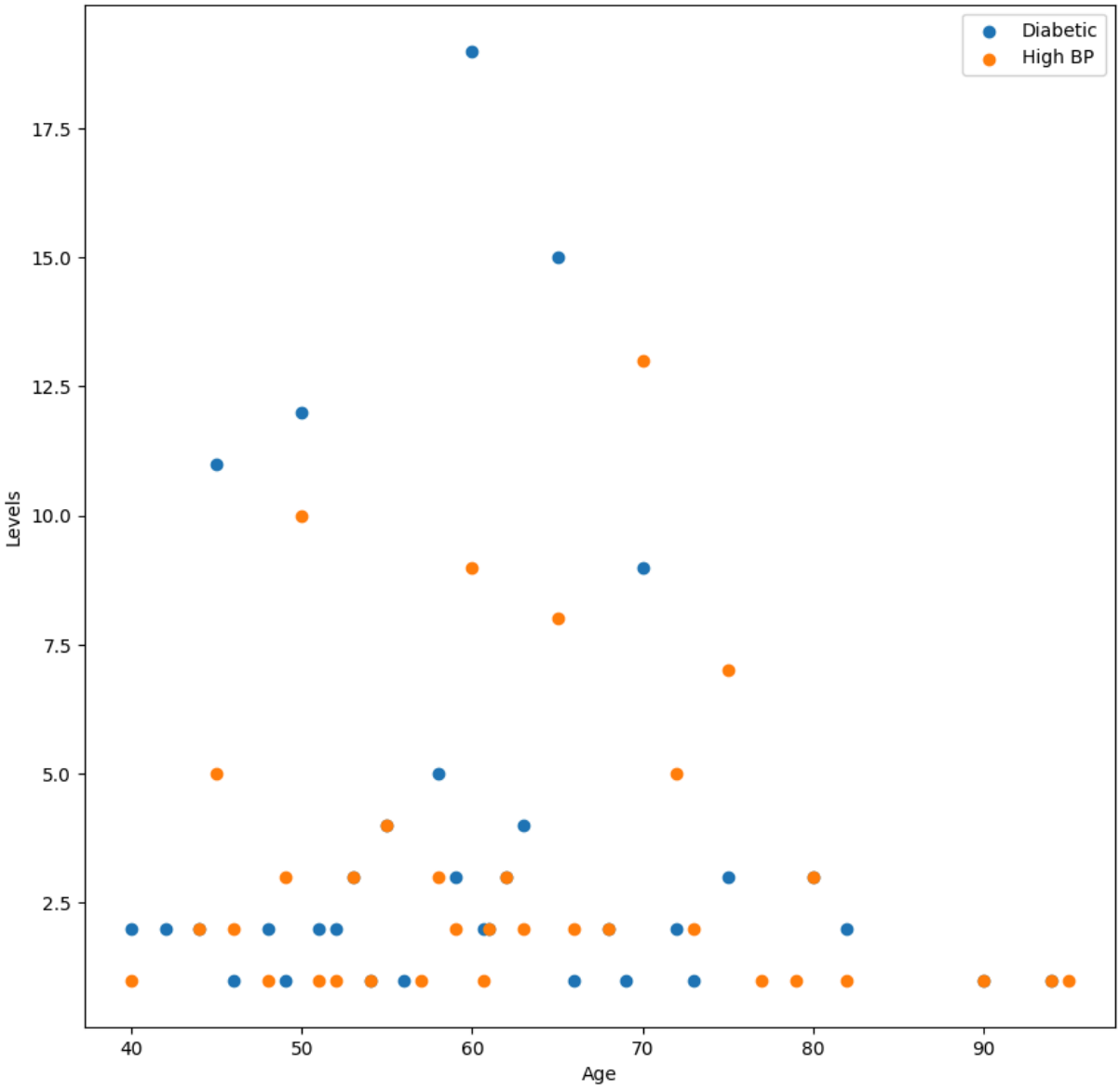
In [14]:
```
#Import libraries
import pandas as pd
import matplotlib.pyplot as plt

#read the csv
df = pd.read_csv('heart_disease.csv')
diabetic_patient= df.loc[df["diabetes"]==1]
diabetic_patient_df = diabetic_patient.groupby("age")["diabetes"].count().reset_ind
high_blood_pressure = df.loc[df["high_blood_pressure"]==1]
high_blood_pressure_df = high_blood_pressure.groupby("age")["high_blood_pressure"].

plt.figure(figsize=(10,10))
diabetes = diabetic_patient_df["diabetes"]
age= diabetic_patient_df["age"]
plt.scatter(age, diabetes,label="Diabetic")

bp = high_blood_pressure_df["high_blood_pressure"]
age2 = high_blood_pressure_df["age"]
plt.scatter(age2,bp,label="High BP")
plt.xlabel("Age")
plt.ylabel("Levels")
plt.legend()
plt.plot()
```

Out[14]:
```
[]
```



Conclusion -

Task 2 - Find as per gender who has not normal platelets level in blood

In [24]:
```
#Filter by platelets(condition lesser then 150000 OR greater then 450000) and creat
import pandas as pd
import matplotlib.pyplot as plt

#read the csv
df = pd.read_csv('heart_disease.csv')
platelets = df.loc[(df["platelets"] < 150000) | (df["platelets"] > 450000)]
groupby_gender = platelets.groupby("gender")["platelets"].count().reset_index()
value = groupby_gender["platelets"]
label = groupby_gender["gender"]
```

```
plt.pie(value, labels = label, autopct='%0.2f%%', radius=2)
plt.show()
```