Analyzing Job Postings in last 2 years and Predicting Job Postings for future year

```
import numpy as np
import matplotlib.pyplot as plt
def Avg(lst):
def Min(lst):
print(df)
monthyear = (df['month&year']).tolist()
monthyear = monthyear[48:]
posting = (df['Postings']).tolist()
posting= posting[48:]
plt.title("Number of Job Postings of Data Scientists Every Month in Past 2 Years")
plt.xlabel("Months with Year")
plt.plot(monthyear, posting, color='r')
plt.ylim(5000, 10000)
plt.legend(['No. of job posted'])
{:.0f} \nMaximum Job Postings in Past 2 years- {:.0f} ".format(Avg(posting),
```

```
job2018.append(temp1)
mo1 (monthyear)
pos1(posting)
explode = (0.1, 0.0, 0.1, 0.2, 0.0, 0.1, 0.1, 0.2, 0.1, 0.1, 0.2, 0.1)
plt.style.use('dark background')
wedges, texts, autotexts = ax.pie(job2018,
```

```
month2019 = []
def mo2(lst):
        job2019.append(temp1)
mo2 (monthyear)
pos2(posting)
wedges, texts, autotexts = ax.pie(job2019,
                                    labels=month2019,
```

```
plt.show()
```

```
startangle=90, wedgeprops=wp,
plt.setp(autotexts, size=8, weight="bold")
ax.set title("Number of Job Postings of Data Scientists in past 2 year")
plt.show()
male2018 = []
        male2018.append(mens)
        female2018.append(female)
def male2(lst):
        male2019.append(mens)
female2019 = []
        female2019.append(female)
male1(male)
male2(male)
bar1 = np.arange(len(month2018))
bar2 = [i + w for i in bar1]
plt.bar(bar1, male2018, w, label="male", color="violet")
```

```
plt.ylabel("job posting")
plt.xlabel("male and female")
plt.title("job posting for male and female in 2018")
bar3 = np.arange(len(month2019))
bar4 = [i + w for i in bar1]
plt.bar(bar1, male2019, w, label="male", color="cyan")
plt.bar(bar2, female2019, w, label="Female", color="pink")
plt.legend()
plt.show()
x=int(input("Enter month no(ex:1/2/3/4/5/6/7/8/9/10/11/12):=>"))
y=int(input("Enter year (ex:2020/2021/2022/2023/2024/2025...):=>"))
prediction=reg.predict([(x,y)])
predict = "predicted posting for the given month is {posting:.0f} "
```

Outputs of Code :-















