```
import pandas as pd

data = pd.read_csv('Placement.csv')
import warnings
warnings.filterwarnings('ignore')
```

1. Display Top 5 Rows of The Dataset

| data. | | • | | | | | | | | |
|----------------------------|------------------------|-----|------|---------|-----------|----------|------|-------|-----------|-------|
| sl degre | | | der | ssc_p | ssc_b | hsc_p | hs | sc_b | hsc_s | |
| _ | 1 | | 0 | 67.00 | Others | 91.00 | 0th | ners | Commerce | 58.00 |
| 1 | 2 | | 0 | 79.33 | Central | 78.33 | 0th | ners | Science | 77.48 |
| 2 | 3 | | 0 | 65.00 | Central | 68.00 | Cent | tral | Arts | 64.00 |
| 3 | 4 | | 0 | 56.00 | Central | 52.00 | Cent | tral | Science | 52.00 |
| 4 | 5 | | 0 | 85.80 | Central | 73.60 | Cent | tral | Commerce | 73.30 |
| | | | | | | | | | | |
| d salar | | e_t | work | ex ete | st_p spec | ialisat | ion | mba_p | statu | S |
| 0 S | sci&T | ech | | No | 55.0 | Mkt | &HR | 58.80 |) Place | d |
| 1 S | 270000.0 1 Sci&Tech | | | es 86.5 | | Mkt& | Fin | 66.28 | B Place | d |
| 200000.0 2 Comm&Mgmt No | | | | Vο | 75.0 | Mk+δ.Fin | | 57.80 |) Place | d |
| 25000 | 250000.0 | | | | | | | | | |
| 3 S NaN | sci&T | ech | | No | 66.0 | Mkt | &HR | 59.43 | Not Place | d |
| 4 Co 42500 | | gmt | l | No | 96.8 | Mkt& | Fin | 55.50 |) Place | d |

2. Check Last 5 Rows of The Dataset

| data | .tail() | | | | | | | |
|------|---------|--------|-------|--------|-------|--------|----------|----------|
| | sl_no | gender | ssc_p | ssc_b | hsc_p | hsc_b | hsc_s | degree_p |
| 210 | 211 | 0 | 80.6 | Others | 82.0 | Others | Commerce | 77.6 |
| 211 | 212 | Θ | 58.0 | Others | 60.0 | Others | Science | 72.0 |
| 212 | 213 | 0 | 67.0 | Others | 67.0 | Others | Commerce | 73.0 |
| 213 | 214 | 1 | 74.0 | Others | 66.0 | Others | Commerce | 58.0 |

| 214 | 215 | 0 62 | 2.0 Centra | al 58.0 Oth | ers Scie | ence 5 | 53.0 |
|--------|-----------|--------|------------|--------------|----------|-----------|------|
| | | | | | | | |
| | degree_t | workex | etest_p sp | ecialisation | mba_p | status | |
| salar | y | | | | | | |
| 210 | Comm&Mgmt | No | 91.0 | Mkt&Fin | 74.49 | Placed | |
| 40000 | 0.0 | | | | | | |
| 211 | Sci&Tech | No | 74.0 | Mkt&Fin | 53.62 | Placed | |
| 275000 | 0.0 | | | | | | |
| 212 | Comm&Mgmt | Yes | 59.0 | Mkt&Fin | 69.72 | Placed | |
| 295000 | 0.0 | | | | | | |
| 213 | Comm&Mgmt | No | 70.0 | Mkt&HR | 60.23 | Placed | |
| 204000 | 0.0 | | | | | | |
| 214 | Comm&Mgmt | No | 89.0 | Mkt&HR | 60.22 No | ot Placed | |
| NaN | | | | | | | |
| | | | | | | | |

3. Find Shape of Our Dataset (Number of Rows And Number of Columns)

```
data.shape
(215, 15)

print("Number of Rows", data.shape[0])
print("Number of Columns", data.shape[1])

Number of Rows 215
Number of Columns 15
```

4. Get Information About Our Dataset Like the Total Number of Rows, Total Number of Columns, Datatypes of Each Column And Memory Requirement

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 215 entries, 0 to 214
Data columns (total 15 columns):
                     Non-Null Count
     Column
                                     Dtype
    sl no
                     215 non-null
                                     int64
 0
 1
     gender
                     215 non-null
                                     int64
                     215 non-null
 2
                                     float64
     ssc p
                     215 non-null
 3
                                     object
     ssc b
 4
    hsc p
                     215 non-null
                                     float64
 5
     hsc b
                     215 non-null
                                     object
 6
     hsc s
                     215 non-null
                                     object
                     215 non-null
                                     float64
     degree p
```

```
degree_t
                   215 non-null
                                  object
9
    workex
                   215 non-null
                                  object
10 etest p
                   215 non-null
                                  float64
 11 specialisation 215 non-null
                                  object
12 mba p
                   215 non-null
                                  float64
                   215 non-null
13
    status
                                  object
14 salary
                   148 non-null
                                  float64
dtypes: float64(6), int64(2), object(7)
memory usage: 25.3+ KB
```

5. Check Null Values In The Dataset

```
data.isnull().sum()
sl no
                    0
gender
                    0
ssc p
                    0
                    0
ssc b
hsc_p
                    0
                    0
hsc_b
hsc_s
                    0
                    0
degree_p
degree_t
                    0
workex
                    0
                    0
etest_p
                    0
specialisation
                    0
mba p
status
                    0
salary
                   67
dtype: int64
```

6. Get Overall Statistics About The Dataset

| sl_no gender ssc_p hsc_p degree_p etest_p \ count 215.000000 215.000000 215.000000 215.000000 215.000000 mean 108.000000 0.353488 67.303395 66.333163 66.370186 72.100558 |
|---|
| count 215.000000 215.000000 215.000000 215.000000 215.000000 mean 108.000000 0.353488 67.303395 66.333163 66.370186 |
| 215.000000 mean 108.000000 0.353488 67.303395 66.333163 66.370186 |
| mean 108.000000 0.353488 67.303395 66.333163 66.370186 |
| |
| 12,10000 |
| std 62.209324 0.479168 10.827205 10.897509 7.358743 |
| 13.275956 |
| min 1.000000 0.000000 40.890000 37.000000 50.000000 |
| 50.000000 |
| 25% 54.500000 0.000000 60.600000 60.900000 61.000000 |
| 60.000000 |
| 50% 108.000000 0.000000 67.000000 65.000000 66.000000 |
| 71.000000 |
| 75% 161.500000 1.000000 75.700000 73.000000 72.000000 |

```
83.500000
     215.000000
                    1.000000 89.400000 97.700000
                                                     91.000000
max
98,000000
           mba p
                         salary
count 215.000000
                     148.000000
       62.278186
                  288655.405405
mean
std
       5.833385
                  93457.452420
                  200000.000000
       51.210000
min
       57.945000
25%
                  240000.000000
50%
       62.000000
                  265000.000000
       66.255000
                  300000.000000
75%
max
       77.890000
                 940000.000000
```

7. EDA

How Many Students Got Placed?

```
data['status'].unique()
array(['Placed', 'Not Placed'], dtype=object)
data['status'].value_counts()
Placed 148
Not Placed 67
Name: status, dtype: int64
```

Could you display the top 5 sci&tech students placed according to their salary?

| | sl_no | gender | ssc_p | ssc_b | hsc_p | hsc_b | hsc_s | degree_p |
|----------|---------|----------|--------|-----------|----------|----------|---------|----------|
| \ 150 | 151 | 0 | 71.00 | Central | 58.66 | Central | Science | 58.00 |
| 77 | 78 | 0 | 64.00 | Others | 80.00 | Others | Science | 65.00 |
| 163 | 164 | 0 | 63.00 | Others | 67.00 | Others | Science | 64.00 |
| 174 | 175 | 0 | 73.24 | Others | 50.83 | Others | Science | 64.27 |
| 53 | 54 | 0 | 80.00 | Others | 70.00 | Others | Science | 72.00 |
| | doggoo | مام مادم | v otoo | t n anaci | -lico+ic | | status | colony |
| | uegree_ | t worke | x etes | t_p speci | acisacic | on mba_p | status | salary |
| 150 | Sci&Tec | h Ye | s 56 | 5.0 | Mkt&Fi | n 61.30 | Placed | 690000.0 |
| 77 | Sci&Tec | h Ye | s 69 | 9.0 | Mkt&Fi | in 57.65 | Placed | 500000.0 |
| 163 | Sci&Tec | h N | o 75 | 5.0 | Mkt&Fi | n 66.46 | Placed | 500000.0 |
| 174 | Sci&Tec | h Ye | s 64 | 4.0 | Mkt&Fi | n 66.23 | Placed | 500000.0 |
| 53 | Sci&Tec | h N | o 87 | 7.0 | Mkt&H | IR 71.04 | Placed | 450000.0 |

8. Data Preprocessing

| <pre>data.head()</pre> | | | | | | | | | | |
|------------------------|---------------|----------|------|--------|-----------|---------|-----|-------|------------|-------|
| | sl_no ee p | ger \ | nder | ssc_p | ssc_b | hsc_p | h | sc_b | hsc_s | |
| 0 | 1 | ` | 0 | 67.00 | Others | 91.00 | 0t | hers | Commerce | 58.00 |
| 1 | 2 | | 0 | 79.33 | Central | 78.33 | 0t | hers | Science | 77.48 |
| 2 | 3 | | 0 | 65.00 | Central | 68.00 | Cen | tral | Arts | 64.00 |
| 3 | 4 | | 0 | 56.00 | Central | 52.00 | Cen | tral | Science | 52.00 |
| 4 | 5 | | 0 | 85.80 | Central | 73.60 | Cen | tral | Commerce | 73.30 |
| | | | | | | | | | | |
| sala | _ | e_t | work | ex ete | st_p spec | ialisat | ion | mba_p | status | 5 |
| 0 | Sci&T | ech | | No | 55.0 | Mkt | &HR | 58.80 |) Placed | d |
| 1 | Sci&T 00.0 | ech | Y | es | 86.5 | Mkt& | Fin | 66.28 | B Placed | i |
| 2 (| Comm&M | gmt | | No | 75.0 | Mkt& | Fin | 57.80 |) Placed | i |
| 2506 3 | 00.0 Sci&T | ech | l | No | 66.0 | Mkt | &HR | 59.43 | Not Placed | i |

```
NaN
4 Comm&Mamt
               No 96.8
                                 Mkt&Fin 55.50
                                                   Placed
425000.0
data = data.drop(['sl no', 'salary'],axis=1)
data.head(1)
  gender ssc p ssc b hsc p hsc b hsc s degree p degree t
workex
       0
           67.0 Others 91.0 Others Commerce
                                                   58.0 Sci&Tech
No
  etest p specialisation mba p status
                         58.8 Placed
     55.0
                 Mkt&HR
Encoding the Categorical Columns
data['ssc b'].unique()
array(['Others', 'Central'], dtype=object)
data['ssc b'] = data['ssc b'].map({'Central':1,'Others':0})
data.head(2)
  gender ssc p ssc b hsc p hsc b
                                       hsc s degree p degree t
workex
                    0 91.00 Others Commerce
0
       0 67.00
                                                 58.00 Sci&Tech
```

1 78.33 Others Science

status

Placed

gender ssc p ssc b hsc p hsc b hsc s degree p degree t

0

0

Commerce

77.48 Sci&Tech

58.00 Sci&Tech

Science 77.48 Sci&Tech

No

1 Yes 0 79.33

55.0

86.5

data.head(2)

workex

0 No

1 Yes

data['hsc b'].unique()

0 67.00

0 79.33

etest p specialisation mba p

array(['Others', 'Central'], dtype=object)

Mkt&HR 58.80

0 91.00

1 78.33

Mkt&Fin 66.28 Placed

data['hsc b'] = data['hsc b'].map({'Central':1,'Others':0})

```
etest p specialisation
                           mba p
                                  status
0
                   Mkt&HR
      55.0
                           58.80
                                  Placed
1
      86.5
                  Mkt&Fin 66.28
                                 Placed
data['hsc s'].unique()
array(['Commerce', 'Science', 'Arts'], dtype=object)
data['hsc s'] = data['hsc s'].map({'Science':2, 'Commerce':1, 'Arts':0})
data.head()
   gender ssc p ssc b hsc p hsc b hsc s degree p
                                                         degree t
workex
                      0 91.00
        0
          67.00
                                    0
                                           1
                                                 58.00
                                                         Sci&Tech
No
        0 79.33
                      1 78.33
                                    0
                                           2
                                                 77.48
                                                         Sci&Tech
1
Yes
                                                 64.00
2
        0 65.00
                      1 68.00
                                    1
                                           0
                                                        Comm&Mgmt
No
        0 56.00
                      1 52.00
                                    1
                                           2
                                                 52.00
                                                         Sci&Tech
3
No
                                                 73.30 Comm&Mqmt
          85.80
                      1 73.60
                                    1
                                           1
No
   etest p specialisation
                           mba p
                                      status
0
      55.0
                   Mkt&HR
                           58.80
                                      Placed
1
      86.5
                  Mkt&Fin
                           66.28
                                      Placed
2
                           57.80
                                      Placed
      75.0
                  Mkt&Fin
3
      66.0
                   Mkt&HR
                          59.43
                                  Not Placed
4
                                      Placed
      96.8
                  Mkt&Fin 55.50
data['degree t'].unique()
array(['Sci&Tech', 'Comm&Mgmt', 'Others'], dtype=object)
data['degree t'] =
data['degree t'].map({'Sci&Tech':2,'Comm&Mgmt':1,'Others':0})
data.head(2)
   gender ssc p ssc b hsc p hsc b hsc s degree p degree t
workex
           67.00
                      0 91.00
                                                 58.00
                                                               2
No
        0 79.33
                     1 78.33
                                    0
                                           2
                                                 77.48
                                                               2
1
Yes
   etest p specialisation
                           mba p
                                  status
                           58.80
      55.0
                   Mkt&HR
                                  Placed
0
1
      86.5
                  Mkt&Fin 66.28 Placed
```

```
data['specialisation'].unique()
array(['Mkt&HR', 'Mkt&Fin'], dtype=object)
data['specialisation']
=data['specialisation'].map({'Mkt&HR':1,'Mkt&Fin':0})
data.head(2)
   gender ssc p ssc b hsc p hsc b hsc s degree p degree t
workex
                       91.00
                                                               2
0
        0
           67.00
                      0
                                    0
                                          1
                                                 58.00
No
        0 79.33
                     1 78.33
                                    0
                                          2
                                                 77.48
                                                               2
1
Yes
   etest_p specialisation
                            mba p
                                   status
0
      55.0
                         1
                            58.80
                                   Placed
                           66.28 Placed
1
      86.5
                         0
data['workex'].unique()
array(['No', 'Yes'], dtype=object)
data['workex'] = data['workex'].map({'Yes':1,'No':0})
data.head(2)
   gender ssc p ssc b hsc p hsc b hsc s degree p degree t
workex
           67.00
                        91.00
                                                 58.00
                                                               2
        0
                      0
0
                                                               2
1
        0
          79.33
                     1 78.33
                                    0
                                          2
                                                 77.48
1
   etest_p specialisation
                            mba p
                                   status
0
      55.0
                            58.80
                                   Placed
     86.5
                         0
                           66.28
                                  Placed
1
data['status'].unique()
array(['Placed', 'Not Placed'], dtype=object)
data['status'] = data['status'].map({'Placed':1, 'Not Placed':0})
data.head()
   gender ssc p ssc b hsc p hsc b hsc s degree p degree t
workex
        0
           67.00
                     0
                        91.00
                                    0
                                          1
                                                 58.00
                                                               2
0
1
          79.33
                                                               2
        0
                     1 78.33
                                    0
                                          2
                                                77.48
1
```

```
2
        0
            65.00
                        1 68.00
                                       1
                                               0
                                                     64.00
                                                                     1
0
3
        0
            56.00
                        1
                           52.00
                                       1
                                               2
                                                     52.00
                                                                     2
0
4
        0 85.80
                        1 73.60
                                                     73.30
                                                                     1
0
             specialisation
   etest p
                              mba p
                                      status
                              58.80
0
      55.0
1
      86.5
                           0 66.28
                                            1
2
                              57.80
      75.0
                           0
                                            1
3
      66.0
                           1
                              59.43
                                            0
4
      96.8
                              55.50
                                            1
```

9. Store Feature Matrix In X and Response(Target) In Vector y

```
data.columns
Index(['gender', 'ssc_p', 'ssc_b', 'hsc_p', 'hsc_b', 'hsc_s',
'degree_p',
        _____
'degree_t', 'workex', 'etest_p', 'specialisation', 'mba_p',
'status'],
      dtype='object')
X = data.drop('status',axis=1)
y= data['status']
У
0
       1
1
       1
2
       1
3
       0
       1
210
       1
211
       1
212
       1
213
       1
214
Name: status, Length: 215, dtype: int64
```

10. Splitting The Dataset Into The Training Set And Test Set

```
from sklearn.model_selection import train_test_split

X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.20,rand
om_state=42)
```

11. Import The models

```
from sklearn.linear_model import LogisticRegression
from sklearn.neighbors import KNeighborsClassifier
from sklearn import svm
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import RandomForestClassifier
from sklearn.ensemble import GradientBoostingClassifier
```

12. Model Training

```
lr = LogisticRegression()
lr.fit(X_train,y_train)

svm = svm.SVC()
svm.fit(X_train,y_train)

knn=KNeighborsClassifier()
knn.fit(X_train,y_train)

dt=DecisionTreeClassifier()
dt.fit(X_train,y_train)

rf=RandomForestClassifier()
rf.fit(X_train,y_train)

gb=GradientBoostingClassifier()
gb.fit(X_train,y_train)
GradientBoostingClassifier()
```

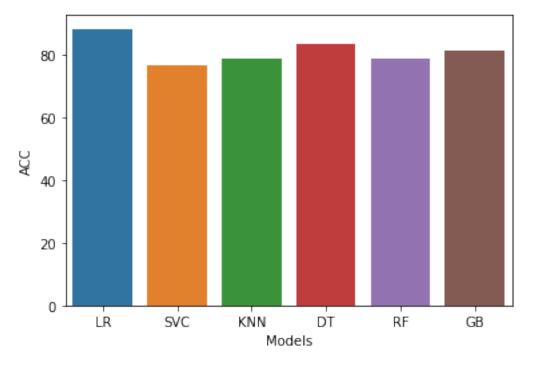
13. Prediction on Test Data

```
y_pred1 = lr.predict(X_test)
y_pred2 = svm.predict(X_test)
y_pred3 = knn.predict(X_test)
y_pred4 = dt.predict(X_test)
y_pred5 = rf.predict(X_test)
y_pred6 = gb.predict(X_test)
```

14. Evaluating the Algorithms

```
from sklearn.metrics import accuracy_score
score1=accuracy_score(y_test,y_pred1)
score2=accuracy_score(y_test,y_pred2)
score3=accuracy_score(y_test,y_pred3)
score4=accuracy_score(y_test,y_pred4)
score5=accuracy_score(y_test,y_pred5)
score6=accuracy_score(y_test,y_pred6)
```

```
print(score1, score2, score3, score4, score5, score6)
0.8837209302325582 0.7674418604651163 0.7906976744186046
0.8372093023255814 0.7906976744186046 0.813953488372093
final_data = pd.DataFrame({'Models':['LR','SVC','KNN','DT','RF','GB'],
            'ACC':[score1*100,
                  score2*100,
                  score3*100,
                  score4*100,
                  score5*100, score6*100]})
final_data
  Models
                ACC
0
     LR 88.372093
1
     SVC 76.744186
2
     KNN 79.069767
3
      DT
         83.720930
4
      RF
         79.069767
5
      GB 81.395349
import seaborn as sns
sns.barplot(final data['Models'],final data['ACC'])
<AxesSubplot:xlabel='Models', ylabel='ACC'>
```



15. Prediction on New Data

```
new data = pd.DataFrame({
    'gender':0,
    'ssc p':67.0,
    'ssc b':0,
    'hsc p':91.0,
    'hsc b':0,
    'hsc s':1,
    'degree p':58.0,
    'degree t':2,
    'workex':0,
    'etest p':55.0,
     'specialisation':1,
    'mba p':58.8,
\},index=[0])
lr= LogisticRegression()
lr.fit(X,y)
LogisticRegression()
p=lr.predict(new data)
prob=lr.predict_proba(new_data)
if p==1:
    print('Placed')
    print(f"You will be placed with probability of {prob[0][1]:.2f}")
else:
    print("Not-placed")
Placed
You will be placed with probability of 0.96
prob
array([[0.04186191, 0.95813809]])
```

16. Save Model Using Joblib

```
import joblib

joblib.dump(lr, 'model_campus_placement')

['model_campus_placement']

model = joblib.load('model_campus_placement')

model.predict(new_data)

array([1], dtype=int64)
```

```
from tkinter import *
import joblib
import numpy as np
from sklearn import *
import tkinter.font as font
import pandas as pd
def show_entry_fields():
    text = clicked.get()
    if text == "Male":
        p1 = 1
        print(p1)
    else:
        p1 = 0
        print(p1)
    p2=float(e2.get())
    text = clicked1.get()
    if text == "Central":
        p3 = 1
        print(p3)
    else:
        p3=0
        print(p3)
    p4=float(e4.get())
    text = clicked6.get()
    if text == "Central":
        p5 = 1
        print(p3)
    else:
        p5 = 0
        print(p3)
    text = clicked2.get()
    if text == "Science":
        p6 = 2
        print(p6)
    elif text == "Commerce":
        p6 = 1
        print(p6)
    else:
        p6=0
        print(p6)
    p7=float(e7.get())
    text = clicked3.get()
    if text == "Sci&Tech":
        p8 = 2
        print(p8)
    elif text=="Comm&Mgmt":
        p8 = 1
```

```
print(p8)
    else:
        0=8q
        print(p8)
    text = clicked4.get()
    if text == "Yes":
        p9 = 1
        print(p3)
    else:
        p9 = 0
        print(p3)
    p10=float(e10.get())
    text = clicked5.get()
    if text == "Mkt&HR":
        p11=1
        print(p11)
    else:
        p11=0
        print(p11)
    p12=float(e12.get())
    model = joblib.load('model_campus_placement')
    new_data = pd.DataFrame({
    'gender':p1,
    'ssc p':p2,
    'ssc b':p3,
    'hsc_p':p4,
    'hsc b':p5,
    'hsc s':p6,
    'degree_p':p7,
    'degree t':p8,
    'workex':p9,
    'etest p':p10,
     'specialisation':p11,
    'mba p':p12,
\}, index=[0]
    result=model.predict(new_data)
    result1=model.predict proba(new data)
    if result[0] == 0:
        Label(master, text="Can't Placed").grid(row=31)
        Label(master, text="Student Will be Placed With Probability
of", font=("Arial", 15)).grid(row=31)
        Label(master, text=round(result1[0][1],2)*100,font=("Arial",
15)).grid(row=33)
        Label(master, text="Percent", font=("Arial", 15)).grid(row=34)
master = Tk()
```

```
master.title("Campus Placement Prediction System")
label = Label(master, text = "Campus Placement Prediction System"
                          , bg = "green", fg = "white",font=("Arial",
20)) \
                                .grid(row=0,columnspan=2)
Label(master, text="Gender", font=("Arial", 15)).grid(row=1)
Label(master, text="Secondary Education percentage- 10th
Grade", font=("Arial", 15)).grid(row=2)
Label(master, text="Board of Education", font=("Arial",
15)).grid(row=3)
Label(master, text="Higher Secondary Education percentage- 12th
Grade", font=("Arial", 15)).grid(row=4)
Label(master, text="Board of Education", font=("Arial",
15)).grid(row=5)
Label(master, text="Specialization in Higher Secondary
Education", font=("Arial", 15)).grid(row=6)
Label(master, text="Degree Percentage",font=("Arial", 15)).grid(row=7)
Label(master, text="Under Graduation(Degree type) - Field of degree
education",font=("Arial", 15)).grid(row=8)
Label(master, text="Work Experience", font=("Arial", 15)).grid(row=9)
Label(master, text="Enter test percentage", font=("Arial",
15)).grid(row=10)
Label(master, text="branch specialization", font=("Arial",
15)).grid(row=11)
Label(master, text="MBA percentage", font=("Arial", 15)).grid(row=12)
clicked = StringVar()
options = ["Male", "Female"]
clicked1 = StringVar()
options1 = ["Central", "Others"]
clicked2 = StringVar()
options2 = ["Science", "Commerce", "Arts"]
clicked3 = StringVar()
options3 = ["Sci&Tech", "Comm&Mgmt", "Others"]
clicked4 = StringVar()
options4 = ["Yes","No"]
clicked5 = StringVar()
options5 = ["Mkt&HR","Mky&Fin"]
clicked6 = StringVar()
options6 = ["Central", "Others"]
e1 = OptionMenu(master , clicked , *options )
el.configure(width=13)
```

```
e2 = Entry(master)
e3 = OptionMenu(master , clicked1 , *options1 )
e3.configure(width=13)
e4 = Entry(master)
e5 = OptionMenu(master , clicked6 , *options6)
e5.configure(width=13)
e6 = OptionMenu(master , clicked2 , *options2)
e6.configure(width=13)
e7 = Entry(master)
e8 = OptionMenu(master , clicked3 , *options3)
e8.configure(width=13)
e9 = OptionMenu(master , clicked4 , *options4)
e9.configure(width=13)
e10 = Entry(master)
e11 = OptionMenu(master , clicked5 , *options5)
ell.configure(width=13)
e12 = Entry(master)
el.grid(row=1, column=1)
e2.grid(row=2, column=1)
e3.grid(row=3, column=1)
e4.grid(row=4, column=1)
e5.grid(row=5, column=1)
e6.grid(row=6, column=1)
e7.grid(row=7, column=1)
e8.grid(row=8, column=1)
e9.grid(row=9, column=1)
e10.grid(row=10, column=1)
ell.grid(row=11, column=1)
e12.grid(row=12, column=1)
buttonFont = font.Font(family='Helvetica', size=16, weight='bold')
Button(master, text='Predict', height= 1,
width=8,activebackground='#00ff00',font=buttonFont,bg='black',
fg='white',command=show entry fields).grid()
mainloop()
```