INTERNSHIP REPORT

ON

PYTHON COMPITATIVE CODEING

A internship Report is submitted

In accordance with requirement of degree of

BACHELOR OF TECHNOLOGY

IN

Computer science and information technology

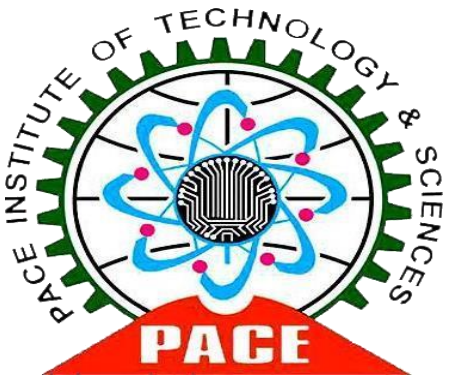
Submitted by

G.Surekha

21kq1a0705

Under the Mentorship of

M.SRAVAN KUMAR



DEPARTMENT OF Computer science and information technology

PACE INSTITUTE OF TECNOLOGY AND SCIENCES (AUTONOMOUS)

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada &

Accredited by NAAC 'A' GRADE,An ISO 9001-2015 Certified Institution)

NH-16, Valluru Post , Prakasam District, A.P-523272.

CAMPUS CHOICE PREDICTOR

DESCRIPITION

Campus choice for students based on the branches and placements,every student will be think about for our future.we can take few colleges data and check the analysis like branches,placements,percentage,facility….

Requirements:

INPUT:

1.College name

2. List of Branches in college

3.No.of placements

4.Pass percentage

5.Distance

6.Status

7.Transport

OUTPUT:

1.Details of particular college

2.College name with placements greater than 500

3.Transport available college names

4.No.of autonomous colleges

5.Branches of particular college

6.College that are less distance

7.college names with pass percentage greater than 60

8.Which college has max placements

FUNCTIONS:

Conditions,Lists,Sets,Dictionary,max(),pandas

APPROACH:

1. User Input: The code allows users to enter information for a specified number of colleges. College details include name, branches (as a list), placements, percentage, distance, status (autonomous/non-autonomous), and transport availability.
2. Data Storage and Display: It stores the entered data in a list of dictionaries (l). The code displays the college details in a tabular format.
3. DataFrame Creation: It creates a Pandas DataFrame (df) from the list l.
4. College Search: It allows users to search for a specific college by name and displays its details.
5. Filtering: It can filter colleges based on: Placements greater than 500 Transport availability ("yes") Percentage greater than 60 Autonomous status ("autonomous")

source code:

project.py - C:\Users\Dwaraka\AppData\Local\Programs\Python\Python312\project.py (3.12.4)

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```
import pandas as pd
l=[]
def college(s,a,p,per,km,st,bf):
    campus={
        'college':s,
        'Branch':a,
        'Placements':p,
        'Percentage':per,
        'Distance':km,
        'Status':st,
        'Transport':bf
    }
    l.append(campus)

n=int(input("No.of colleges: "))
for i in range(1,n+1):
    s=input("Name of the college: ")
    a=list(input("List of branches: ").split())
    p=int(input("No.of placements: "))
    per=float(input("Pass percentage: "))
    km=int(input("Distance: "))
    st=input("Status: ")
    bf=input("Transport: ")
    college(s,a,p,per,km,st,bf)
print('college\tBranch\tPlacements\tPercentage\tDistance\tStatus\tTransport\t')
for i in range(n):
    print(l[i])
df=pd.DataFrame(l)
print(df)
k=input()
for i in range(n):
    if l[i]['college']==k:
        print("Details of college: ")
        print(l[i]['college'],l[i]['Branch'],l[i]['Placements'],l[i]['Percentage'],l[i]['Distance'],l[i]['Status'],l[i]['Transport'])
for i in range(n):
    if l[i]['Placements']>500:
        print('Placements greater than 500: ',l[i]['college'])
g=input()
for i in range(n):
    if l[i]['college']==g:
        print('Branches: ',l[i]['Branch'])
```

```
for i in range(n):
    if l[i]['Transport']=='yes':
        print('Transport available college: ',l[i]['college'])
for  i in range(n):
    if l[i]['Percentage']>60:
        print('percentage of college: ',l[i]['college'])
v=0
for i in range(n):
    if l[i]['Status']=='autonomous':
        v=v+1
        print('Autonomous college: ',l[i]['college'])
print('count:', v)
c=[]
for i in range(n):
    c.append(l[i]['Placements'])
mx=max(c)
for i in range(n):
    if l[i]['Placements']==mx:
        print('Max Placements of college: ',mx,l[i]['college'])
d=[]
for i in range(n):
    d.append(l[i]['Distance'])
mn=min(d)
for i in range(n):
    if l[i]['Distance']==mn:
        print('Min Placements of college: ',mn,l[i]['college'])
```

Output:

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```
Name of the college: kl
List of branches: cse it iot
No.of placements: 450
Pass percentage: 70
Distance: 200
Status: autonomous
Transport: no
Name of the college: mn
List of branches: aids aiml iot
No.of placements: 550
Pass percentage: 69
Distance: 250
Status: jntuk
Transport: yes
Name of the college: op
List of branches: civil mech iot
No.of placements: 600
Pass percentage: 59
Distance: 300
Status: autonomous
Transport: yes
Name of the college: qr
List of branches: mech cse it
No.of placements: 600
Pass percentage: 50
Distance: 150
Status: jntuk
Transport: no
Name of the college: st
List of branches: csit iot it
No.of placements: 600
Pass percentage: 70
Distance: 150
Status: jntuk
Transport: yes
Name of the college: uv
List of branches: cse it aids
No.of placements: 470
Pass percentage: 65
Distance: 100
Status: autonomous
Transport: no
```

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```
Name of the college: wx
List of branches: csit aiml aids
No.of placements: 470
Pass percentage: 55
Distance: 120
Status: jntuk
Transport: no
Name of the college: yz
List of branches: aiml aids civil
No.of placements: 660
Pass percentage: 54
Distance: 120
Status: autonomous
Transport: yes
Name of the college: pace
List of branches: cse it csit
No.of placements: 66
Pass percentage: 77
Distance: 130
Status: jntuk
Transport: yes
Name of the college: qis
List of branches: it civil mech
No.of placements: 670
Pass percentage: 68
Distance: 130
Status: autonomous
Transport: no
Name of the college: rise
List of branches: csit civil mech
No.of placements: 490
Pass percentage: 64
Distance: 130
Status: autonomous
Transport: no
Name of the college: prakasam
List of branches: civil aids aiml
No.of placements: 660
Pass percentage: 62
Distance: 250
Status: jntuk
Transport: yes
```

IDLE Shell 3.12.4

File Edit Shell Debug Options Window Help

```
Name of the college: zx
List of branches: csit cse iot
No.of placements: 370
Pass percentage: 78
Distance: 350
Status: autonomous
Transport: no
Name of the college: civil
List of branches: cse it iot
No.of placements: 590
Pass percentage: 79
Distance: 140
Status: jntuk
Transport: no
Name of the college: mech
List of branches: civil csit iot
No.of placements: 500
Pass percentage: 60
Distance: 200
Status: jntuk
Transport: no
college Branch  Placements      Percentage      Distance        Status  Transport
{'college': 'ab', 'Branch': ['cse', 'it', 'iot'], 'Placements': 500, 'Percentage': 60.0, 'Distance': 100, 'Status': 'autonomous', 'Transport': 'yes'}
{'college': 'cd', 'Branch': ['csit', 'aims', 'aids'], 'Placements': 600, 'Percentage': 70.0, 'Distance': 150, 'Status': 'jntuk', 'Transport': 'no'}
{'college': 'ef', 'Branch': ['aids', 'aiml', 'mech'], 'Placements': 400, 'Percentage': 60.0, 'Distance': 200, 'Status': 'autonomous', 'Transport': 'no'}
{'college': 'gh', 'Branch': ['csit', 'iot', 'mech'], 'Placements': 600, 'Percentage': 70.0, 'Distance': 250, 'Status': 'jntuk', 'Transport': 'yes'}
{'college': 'ij', 'Branch': ['aids', 'civil', 'iot'], 'Placements': 550, 'Percentage': 69.0, 'Distance': 250, 'Status': 'jntuk', 'Transport': 'no'}
{'college': 'kl', 'Branch': ['cse', 'it', 'iot'], 'Placements': 450, 'Percentage': 70.0, 'Distance': 200, 'Status': 'autonomous', 'Transport': 'no'}
{'college': 'mn', 'Branch': ['aids', 'aiml', 'iot'], 'Placements': 550, 'Percentage': 69.0, 'Distance': 250, 'Status': 'jntuk', 'Transport': 'yes'}
{'college': 'op', 'Branch': ['civil', 'mech', 'iot'], 'Placements': 600, 'Percentage': 59.0, 'Distance': 300, 'Status': 'autonomous', 'Transport': 'yes'}
{'college': 'qr', 'Branch': ['mech', 'cse', 'it'], 'Placements': 600, 'Percentage': 50.0, 'Distance': 150, 'Status': 'jntuk', 'Transport': 'no'}
{'college': 'st', 'Branch': ['csit', 'iot', 'it'], 'Placements': 600, 'Percentage': 70.0, 'Distance': 150, 'Status': 'jntuk', 'Transport': 'yes'}
{'college': 'uv', 'Branch': ['cse', 'it', 'aids'], 'Placements': 470, 'Percentage': 65.0, 'Distance': 100, 'Status': 'autonomous', 'Transport': 'no'}
{'college': 'wx', 'Branch': ['csit', 'aiml', 'aids'], 'Placements': 470, 'Percentage': 55.0, 'Distance': 120, 'Status': 'jntuk', 'Transport': 'no'}
{'college': 'yz', 'Branch': ['aiml', 'aids', 'civil'], 'Placements': 660, 'Percentage': 54.0, 'Distance': 120, 'Status': 'autonomous', 'Transport': 'yes'
}
{'college': 'pace', 'Branch': ['cse', 'it', 'csit'], 'Placements': 66, 'Percentage': 77.0, 'Distance': 130, 'Status': 'jntuk', 'Transport': 'yes'}
{'college': 'qis', 'Branch': ['it', 'civil', 'mech'], 'Placements': 670, 'Percentage': 68.0, 'Distance': 130, 'Status': 'autonomous', 'Transport': 'no'}
{'college': 'rise', 'Branch': ['csit', 'civil', 'mech'], 'Placements': 490, 'Percentage': 64.0, 'Distance': 130, 'Status': 'autonomous', 'Transport': 'no
'}
{'college': 'prakasam', 'Branch': ['civil', 'aids', 'aiml'], 'Placements': 660, 'Percentage': 62.0, 'Distance': 250, 'Status': 'jntuk', 'Transport': 'yes
'}
```

IDLE Shell 3.12.4

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```
'}
{'college': 'zx', 'Branch': ['csit', 'cse', 'iot'], 'Placements': 370, 'Percentage': 78.0, 'Distance': 350, 'Status': 'autonomous', 'Transport': 'no'}
{'college': 'civil', 'Branch': ['cse', 'it', 'iot'], 'Placements': 590, 'Percentage': 79.0, 'Distance': 140, 'Status': 'jntuk', 'Transport': 'no'}
{'college': 'mech', 'Branch': ['civil', 'csit', 'iot'], 'Placements': 500, 'Percentage': 60.0, 'Distance': 200, 'Status': 'jntuk', 'Transport': 'no'}
     college              Branch  Placements  ...  Distance      Status Transport
0         ab       [cse, it, iot]         500  ...       100  autonomous       yes
1         cd   [csit, aims, aids]         600  ...       150       jntuk        no
2         ef   [aids, aiml, mech]         400  ...       200  autonomous        no
3         gh    [csit, iot, mech]         600  ...       250       jntuk       yes
4         ij   [aids, civil, iot]         550  ...       250       jntuk        no
5         kl       [cse, it, iot]         450  ...       200  autonomous        no
6         mn    [aids, aiml, iot]         550  ...       250       jntuk       yes
7         op   [civil, mech, iot]         600  ...       300  autonomous       yes
8         qr      [mech, cse, it]         600  ...       150       jntuk        no
9         st      [csit, iot, it]         600  ...       150       jntuk       yes
10        uv      [cse, it, aids]         470  ...       100  autonomous        no
11        wx   [csit, aiml, aids]         470  ...       120       jntuk        no
12        yz  [aiml, aids, civil]         660  ...       120  autonomous       yes
13      pace      [cse, it, csit]          66  ...       130       jntuk       yes
14       qis    [it, civil, mech]         670  ...       130  autonomous        no
15      rise  [csit, civil, mech]         490  ...       130  autonomous        no
16  prakasam  [civil, aids, aiml]         660  ...       250       jntuk       yes
17        zx     [csit, cse, iot]         370  ...       350  autonomous        no
18     civil       [cse, it, iot]         590  ...       140       jntuk        no
19      mech   [civil, csit, iot]         500  ...       200       jntuk        no

[20 rows x 7 columns]
wx
Details of college:
wx ['csit', 'aiml', 'aids'] 470 55.0 120 jntuk no
Placements greater than 500:  cd
Placements greater than 500:  gh
Placements greater than 500:  ij
Placements greater than 500:  mn
Placements greater than 500:  op
Placements greater than 500:  qr
Placements greater than 500:  st
Placements greater than 500:  yz
Placements greater than 500:  qis
Placements greater than 500:  prakasam
Placements greater than 500:  civil
kl
```

CONCLUSION:

The campus choice predictor is a tool designed to assist students in selecting the most suitable college based on their preferences and qualifications.by analyzing various factors such as academic,performance,financial…