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Roll No. - 745 Batch - G3

Practical No. 2

Problem statement:- Prepare/Take <u>datasets</u> for any real-life application.And perform operations on it. **CSV File:- examfees.csv**

PRN No	Name of Student	Registered Courses no.		fees paid for reexam	category	admission date
2.02E+11	2.02E+11 1	1	Paid	500	OBC	20-Oct-22
2.02E+11		1	Paid	500	GENERAL	16-Nov22
2.02E+11	341	8	Paid	4000	OBC	20-Oct-22
2.02E+11	2.02E+11	1	Paid	500	OBC	20-Oct-22
2.02E+11	2.02E+11	1	#N/A	500	VJ/NT	20-Oct-22
2.02E+11	737	2	Paid	1000	GENERAL	20-Oct-22
2.02E+11	331	2	Paid	1000	VJ/NT	20-Oct-22
2.02E+11	305 Sahil Dipak Ingale	1	Paid	500	OBC	2-Nov-22
2.02E+11		3	Paid	1500	OBC	2-Nov-22
2.02E+11	Rajat Vijay Hattimare	2	Paid	1000	SBC	20-Oct-22
2.02E+11	Pratham Mishra	2	#N/A	1000	OBC	1-Nov-22
2.02E+11	306	6	Paid	3000	GENERAL	19-Oct-22
2.02E+11		3	Paid	1500	OBC	20-Oct-22
	Sudhanshu Nagraj Pendor					
2.02E+11	Shinde Yashvardhan sadashiv	2	Paid	1000	GENERAL	30-Nov- 22
2.02E+11	Kahalkar pranay vasant	1	Paid	500	GENERAL	20-Oct-22
2.02E+11	VAISHNAVI EKLASPUR	2	Paid	1000	GENERAL	30-Nov- 22
2.02E+11	Rushikesh Dilip Gawande	2	Paid	1000	OBC	20-Oct-22

2.02E+11	Yash sanjay dhunde	3 Paid	1500 OBC	19-Oct-22
2.02E+11	Durvesh jagtap	4 Paid	2000 OBC	16-Nov- 22
2.02E+11	Shravan Vyankatesh Bobade	1 Paid	500 SC	20-Oct-22
2.02E+11	Rohit Basuraj Aheri	1 Paid	500 VJ/NT	20-Oct-22
2.02E+11	Vaishnavi Deepak Mirje	6 Paid	3000 OBC	21-Oct-22
2.02E+11	Nirmiti kishor raut	2 Paid	1000 SC	20-Oct-22
2.02E+11	Roshan yuvraj jadhav	3 Paid	1500 VJ/NT	26-Nov- 22
2.02E+11	Rutvik Rajendra Pawar	1 Paid	500 OBC	16-Nov-

2.02E+11	Pradyumna Kishor Kulkarni	1 Paid	500	GENERAL	30-Nov- 22
2.02E+11	Ritika Sanjay Choudhari	2 Paid	1000	GENERAL	12-Nov- 22
2.02E+11	Vaishnavi Subhash Pawar	3 Paid	1500	VJ/NT	20-Oct-22
2.02E+11	Atharva Kishor Bramhankar	2 Paid	1000	VJ/NT	20-Oct-22

```
registered courses no=[]
semister1=[]
fees paid reexam=dict()
category=[]
admission date=[]
fp1=open("exam fees.csv","r")
data=fp1.readline()
while(True):
data=fp1.readline()
if not data:
break;
   #print(data)
   #data=data.replace("\n","")
temp=data.split(",")
registered courses no.append(temp[3])
semister1.append(temp[4])
fees paid reexam.update({temp[1]:temp[5]})
category.append(temp[6])
admission date.append(temp[7])
fp1.close()
semister1=tuple(semister1)
print(type(semister1))
```

output-

```
<class 'tuple'>
print("\nregistered_courses_no\n",registered_courses_no,end="")
print("\nsemister1\n",semister1,end="")
```

```
print("\nfees_paid_reexam\n", fees_paid_reexam, end="")
print("\ncategory\n", category, end="")
print("\nadmission date\n", admission date, end="")
```

Output:-

```
registered courses no
['1', '1', '8', '1', '1', '2', '2', '1', '3', '2', '2', '6',
'3', '2', '1', '2', '2', '3', '4', '1', '1', '6', '2', '3', '1',
'1', '2', '3', '2'] semister1
('Paid', 'Paid', 'Paid', '#N/A', 'Paid', 'Paid',
'Paid', 'Paid', 'Paid', 'Paid', 'Paid', 'Paid', 'Paid',
'Paid', 'Paid', 'Paid', 'Paid', 'Paid', 'Paid', 'Paid',
'Paid', 'Paid', 'Paid', 'Paid', 'Paid') fees paid reexam
{'2.02201E+11': '500', '1': '500', '341': '4000', '737': '1000',
'331': '1000', '305': '500', 'Sahil Dipak Ingale': '1500',
'Rajat Vijay Hattimare ': '1000', 'Pratham Mishra': '1000',
'306': '3000', 'Sudhanshu Nagraj Pendor ': '1500', 'Shinde
Yashvardhan sadashiv ': '1000', 'Kahalkar pranay vasant': '500',
'VAISHNAVI EKLASPUR ': '1000', 'Rushikesh Dilip Gawande ':
'1000', 'Yash sanjay dhunde ': '1500', 'Durvesh jagtap': '2000',
'Shravan Vyankatesh Bobade ': '500', 'Rohit Basuraj Aheri ':
'500', 'Vaishnavi Deepak Mirje ': '3000', 'Nirmiti kishor raut':
'1000', 'Roshan yuvraj jadhav ': '1500', 'Rutvik Rajendra Pawar
': '500', 'Pradyumna Kishor Kulkarni ': '500', 'Ritika Sanjay
Choudhari ': '1000', 'Vaishnavi Subhash Pawar': '1500', 'Atharva
Kishor Bramhankar ': '1000'} category ['OBC', 'GENERAL', 'OBC',
'OBC', 'VJ/NT', 'GENERAL', 'VJ/NT', 'OBC', 'OBC', 'SBC', 'OBC',
'GENERAL', 'OBC', 'GENERAL', 'GENERAL', 'OBC', 'OBC',
'OBC', 'SC', 'VJ/NT', 'OBC', 'SC', 'VJ/NT', 'OBC', 'GENERAL',
'GENERAL', 'VJ/NT', 'VJ/NT'] admission date
['20-Oct-22\n', '16-Nov-22\n', '20-Oct-22\n', '20-Oct-22\n',
'20-Oct-22\n', '20-Oct-22\n', '20-Oct-22\n', '2-Nov-22\n', '2-
Nov-22\n', '20-Oct-22\n', '1-Nov-22\n', '19-Oct-22\n', '20-Oct-
22\n', '30-Nov-22\n', '20-Oct-22\n', '30-Nov-22\n', '20-Oct-
22\n', '19-Oct-22\n', '16-Nov-22\n', '20-Oct-22\n', '20-Oct-
22\n', '21-Oct-22\n', '20-Oct-22\n', '26-Nov-22\n', '16-Nov-
22\n', '30-Nov-22\n', '12-Nov-22\n', '20-Oct-22\n', '20-Oct-
22\n']
```

```
1.
frequency={}#{registered courses no}
#iteracting over the list for
item in admission date:
  #checking the element in dictionary
if item in frequency:
#incrementing the counter
frequency[item]+=1 else:
      #initialising the count
                                    frequency[item]=1 #printing
the frequency print(frequency)
newlist=sorted(frequency.items(), key=lambda x:x[1], reverse=True)
sortdict=dict(newlist) print(sortdict) print("the date at which
most admissions taken
at",list(sortdict.keys())[0],"by",list(sortdict.values())[0],"st
udents")
Output:-
{'20-Oct-22\n': 15, '16-Nov-22\n': 3, '2-Nov-22\n': 2, '1-Nov-
22\n': 1, '19-Oct-22\n': 2, '30-Nov-22\n': 3, '21-Oct-22\n': 1,
^{126-Nov-22}n': 1, ^{12-Nov-22}n': 1
{'20-Oct-22\n': 15, '16-Nov-22\n': 3, '30-Nov-22\n': 3, '2-Nov-
22\n': 2, '19-Oct-22\n': 2, '1-Nov-22\n': 1, '21-Oct-22\n': 1,
'26-Nov-22\n': 1, '12-Nov-22\n': 1}
the date at which most admissions taken at 20-Oct-22 by
15 students
2.
frequency={}#{registered courses no}
#iteracting over the list for item in
category: #checking the element in
dictionary if item in frequency:
#incrementing the counter
frequency[item] += 1 else:
      #initialising the count
frequency[item]=1 #printing the
frequency print(frequency)
```

```
newlist=sorted(frequency.items(), key=lambda x:x[1], reverse=True)
sortdict=dict(newlist) print(sortdict) print("the most time
category found is
", list(sortdict.keys())[0], "in", list(sortdict.values())[0], "stud
ents")
Output:-
{'OBC': 12, 'GENERAL': 8, 'VJ/NT': 6, 'SBC': 1, 'SC': 2}
{'OBC': 12, 'GENERAL': 8, 'VJ/NT': 6, 'SC': 2, 'SBC': 1}
the most time category found is OBC in 12 students
3.
frequency={}#{semister1}
#iteracting over the list
for item in semister1:
  #checking the element in
dictionary if item in frequency:
#incrementing the counter
frequency[item]+=1
      #initialising the count
                                       frequency[item]=1 #printing
the
                     frequency
                                                  print(frequency)
newlist=sorted(frequency.items(), key=lambda x:x[1], reverse=True)
sortdict=dict(newlist) print(sortdict) print("the fees
got", list(sortdict.keys())[0], "by", list(sortdict.values())
[0], "students")
Output:-
{'Paid': 27, '#N/A': 2} {'Paid':
27, '#N/A': 2} the fees got Paid
by 27 students
```

```
4.
frequency={}#{registered courses no}
#iteracting over the list for item in
category: #checking the element in
dictionary if item in frequency:
#incrementing the counter
frequency[item] += 1 else:
      #initialising the count
frequency[item]=1 #printing the frequency
print(frequency)
newlist=sorted(frequency.items(), key=lambda
x:x[1]) sortdict=dict(newlist) print(sortdict)
print ("the least time category found is
", list(sortdict.keys())[0], "in", list(sortdict.values())[0], "stud
ents")
Output:-
{'OBC': 12, 'GENERAL': 8, 'VJ/NT': 6, 'SBC': 1, 'SC': 2}
{'SBC': 1, 'SC': 2, 'VJ/NT': 6, 'GENERAL': 8, 'OBC': 12}
the least time category found is SBC in 1 students
5.
frequency={}#{semister1}
#iteracting over the list for
item in semister1:
  #checking the element in
dictionary if item in frequency:
#incrementing the counter
frequency[item] += 1 else:
      #initialising the count
      frequency[item]=1 #printing the frequency print(frequency)
newlist=sorted(frequency.items(), key=lambda
                                                            x:x[1]
sortdict=dict(newlist) print(sortdict) print("the fees
got", list(sortdict.keys())[0], "by", list(sortdict.values())
[0], "students")
```

```
Output:-
{'Paid': 27, '#N/A': 2} {'#N/A': 2, 'Paid': 27} the fees got
#N/A by 2 students
6.
frequency={}#{registered courses no}
#iteracting over the list for item in
registered courses no: #checking the
element in dictionary if item
in frequency:
                 #incrementing the
counter frequency[item]+=1
else:
      #initialising the count
frequency[item]=1 #printing the frequency
print(frequency)
newlist=sorted(frequency.items(), key=lambda
x:x[1]) sortdict=dict(newlist) print(sortdict)
print ("the most course no. registered
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
Output:-
{'1': 10, '8': 1, '2': 10, '3': 5, '6': 2, '4': 1}
{'8': 1, '4': 1, '6': 2, '3': 5, '1': 10, '2': 10} the
most course no. registered is 8 by 1 students
```

```
7.
frequency={}#{registered courses no}
#iteracting over the list for
item in admission date:
  #checking the element in
dictionary if item in frequency:
#incrementing the counter
frequency[item]+=1 else:
      #initialising the count
                                 frequency[item]=1 #printing
the frequency print(frequency)
newlist=sorted(frequency.items(), key=lambda x:x[1])
sortdict=dict(newlist) print(sortdict) print("the date at at
which less admissions taken
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
Output:-
{'20-Oct-22\n': 15, '16-Nov-22\n': 3, '2-Nov-22\n': 2, '1-Nov-
22\n': 1, '19-Oct-22\n': 2, '30-Nov-22\n': 3, '21-Oct-22\n': 1,
'26-Nov-22\n': 1, '12-Nov-22\n': 1}
{'1-Nov-22\n': 1, '21-Oct-22\n': 1, '26-Nov-22\n': 1, '12-
Nov22\n': 1, '2-Nov-22\n': 2, '19-Oct-22\n': 2, '16-Nov-22\n': 3,
'30-Nov-22\n': 3, '20-Oct-22\n': 15}
the date at at which less admissions taken is 1-Nov-22 by
1 students
```

```
8.
frequency={}#{registered courses no}
#iteracting over the list for item in
fees paid reexam.values():
#checking the element in dictionary
if item in frequency: #incrementing
the counter frequency[item]+=1
else: #initialising the count the
                                     frequency[item]=1 #printing
frequency print(frequency)
newlist=sorted(frequency.items(), key=lambda x:x[1])
sortdict=dict(newlist) print(sortdict) print("the most amount
paid
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
Output:-
{'500': 8, '4000': 1, '1000': 10, '1500': 5, '3000': 2, '2000':
1}
9.
frequency={}#{registered courses no}
#iteracting over the list for item in
fees paid reexam.values(): #checking
the element in dictionary if item in
frequency:
```

```
#incrementing the
counter
frequency[item]+=1 else:
     the frequency print(frequency)
newlist=sorted(frequency.items(), key=lambda x:x[1], reverse=True)
sortdict=dict(newlist) print(sortdict) print("the most times
amount paid
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
Output:-
{'500': 8, '4000': 1, '1000': 10, '1500': 5, '3000': 2, '2000':
1} {'1000': 10, '500': 8, '1500': 5, '3000': 2, '4000': 1,
'2000':
1 }
the most times amount paid is 1000 by 10 students
10.
```

```
frequency={}#{registered courses no}
#iteracting over the list for item in
fees paid reexam.values():
#checking the element in dictionary
if item in frequency:
#incrementing the counter
frequency[item] +=1 else:
      #initialising the count
                                frequency[item]=1 #printing
the frequency print (frequency)
newlist=sorted(frequency.items(), key=lambda x:x[1])
sortdict=dict(newlist) print(sortdict) print("the most amount
paid
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
Output:-
{'500': 8, '4000': 1, '1000': 10, '1500': 5, '3000': 2, '2000':
1}
```