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Roll No.:-768 Batch:-G4

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

PRN No	Name of Student	Registered Courses no.	Semester1	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	ОВС	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-
						22
2.02E+11	Pradyumna Kishor Kulkarni	1	Paid	500	GENERAL	30-Nov-
	riadydiiiia Kisiloi Kulkariii		raiu			22
2.02E+11	Ditika Caniau Chaudhari	2	Paid	1000	GENERAL	12-Nov-
	Ritika Sanjay Choudhari		Palu			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

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```
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="")
```

```
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', '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'l
```

```
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], reverse=True)
sortdict=dict(newlist) print(sortdict) print("the most times
course no. registered
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
```

```
{'1': 10, '8': 1, '2': 10, '3': 5, '6': 2, '4': 1}
{'1': 10, '2': 10, '3': 5, '6': 2, '8': 1, '4': 1} the most times
course no. registered is 1 by 10 students
```

#### 2.

```
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")
```

```
{'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
```

#### 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 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
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.

```
{'Paid': 27, '#N/A': 2} {'#N/A':
2, 'Paid': 27} the fees got
#N/A by 2 students
```

#### 5.

```
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")
```

```
{'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} {'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 6.
```

```
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")
```

```
{'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
```

#### 7.

```
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")
```

```
{'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
```

#### 8.

```
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
```

#### 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:
    #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 times
amount paid
is", list(sortdict.keys())[0], "by", list(sortdict.values())[0], "st
udents")
```

```
{'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")
```

```
{'500': 8, '4000': 1, '1000': 10, '1500': 5, '3000': 2, '2000': 1}
```

{'4000': 1, '2000': 1, '3000': 2, '1500': 5, '500': 8, '1000': 10} the most amount paid is 4000 by 1 students