

```
In [1]: import pandas as pd
def fun(file):
    df= pd.read_csv(file)
    return df
fun('C:\dr\EmployeeDepartmentHistory.txt')
```

Out[1]:

	BusinessEntityID	DepartmentID	ShiftID	StartDate	EndDate	ModifiedDate
0	1	16	1	2003-02-15	NaN	2003-02-14 00:00:00
1	2	1	1	2002-03-03	NaN	2002-03-02 00:00:00
2	3	1	1	2001-12-12	NaN	2001-12-11 00:00:00
3	4	1	1	2002-01-05	2004-06-30	2004-06-28 00:00:00
4	4	2	1	2004-07-01	NaN	2004-06-30 00:00:00
...	...	...	...	...	...	...
291	286	3	1	2007-07-01	NaN	2007-06-30 00:00:00
292	287	3	1	2006-05-18	NaN	2006-05-17 00:00:00
293	288	3	1	2007-07-01	NaN	2007-06-30 00:00:00
294	289	3	1	2006-07-01	NaN	2006-06-30 00:00:00
295	290	3	1	2006-07-01	NaN	2006-06-30 00:00:00

296 rows × 6 columns

```
In [2]: import pandas as pd
def fun(file):
    df= pd.read_csv(file)
    return df
fun("C:\dr\Department.csv")
```

Out[2]:

	DepartmentID	Name	GroupName	ModifiedDate
0	1	Engineering	Research and Development	2002-06-01 00:00:00
1	2	Tool Design	Research and Development	2002-06-01 00:00:00
2	3	Sales	Sales and Marketing	2002-06-01 00:00:00
3	4	Marketing	Sales and Marketing	2002-06-01 00:00:00
4	5	Purchasing	Inventory Management	2002-06-01 00:00:00
5	6	Research and Development	Research and Development	2002-06-01 00:00:00
6	7	Production	Manufacturing	2002-06-01 00:00:00
7	8	Production Control	Manufacturing	2002-06-01 00:00:00
8	9	Human Resources	Executive General and Administration	2002-06-01 00:00:00
9	10	Finance	Executive General and Administration	2002-06-01 00:00:00
10	11	Information Services	Executive General and Administration	2002-06-01 00:00:00
11	12	Document Control	Quality Assurance	2002-06-01 00:00:00
12	13	Quality Assurance	Quality Assurance	2002-06-01 00:00:00
13	14	Facilities and Maintenance	Executive General and Administration	2002-06-01 00:00:00
14	15	Shipping and Receiving	Inventory Management	2002-06-01 00:00:00
15	16	Executive	Executive General and Administration	2002-06-01 00:00:00

```
In [3]: import pandas as pd
def fun(file):
    df= pd.read_csv(file)
    return df
fun('C:\dr\Employee.csv')
```

Out[3]:

	BusinessEntityID	NationalIDNumber	LoginID	OrganizationNode	OrganizationLevel	
0	1	295847284	adventure-works\ken0	NaN	0	
1	2	245797967	adventure-works\terri0	58	1	Vice of Er
2	3	509647174	adventure-works\roberto0	5AC0	2	Er
3	4	112457891	adventure-works\rob0	5AD6	3	S
4	5	695256908	adventure-works\gail0	5ADA	3	
...	...	...	...	...	...	
285	286	758596752	adventure-works\lynn0	95AB	3	Repr
286	287	982310417	adventure-works\amy0	95E0	2	Sales
287	288	954276278	adventure-works\rachel0	95EB	3	Repr
288	289	668991357	adventure-works\jae0	95ED	3	Repr
289	290	134219713	adventure-works\ranjit0	95EF	3	Repr

290 rows × 6 columns

```
In [6]: import pandas as pd
def fun(file):
    file=pd.read_csv(file)
    l1=file["GroupName"].tolist()
    c=0
    for i in l1:
        if i=="Research and Development":
            c=c+1
    return c
fun("C:\\dr\\Department.csv")
```

Out[6]: 3

```
In [8]: import pandas as pd
def fun(file):
    employee = pd.read_csv(file)
    dept_emp_hours = employee.groupby('JobTitle')['VacationHours'].sum()
    return dept_emp_hours
fun("C:\\dr\\Employee.csv")
```

Out[8]:

JobTitle	
Accountant	117
Accounts Manager	57
Accounts Payable Specialist	127
Accounts Receivable Specialist	183
Application Specialist	290
...	
Stocker	291
Tool Designer	17
Vice President of Engineering	1
Vice President of Production	64
Vice President of Sales	10

Name: VacationHours, Length: 67, dtype: int64

```
In [13]: import pandas as pd
def fun(file):
    employee = pd.read_csv(file)
    dept_emp_hours =list(employee.groupby('JobTitle')['SickLeaveHours'].sum())
    maximum=max(dept_emp_hours)
    minimum=min(dept_emp_hours)
    return (maximum,minimum)
fun("C:\\dr\\Employee.csv")
```

Out[13]: (1287, 20)

```
In [15]: import pandas as pd
def fun(file):
    employee = pd.read_csv(file)
    dept_emp = max(employee.groupby('JobTitle')['JobTitle'].count())
    return dept_emp
fun("C:\\dr\\Employee.csv")
```

Out[15]: 26

In [ ]: