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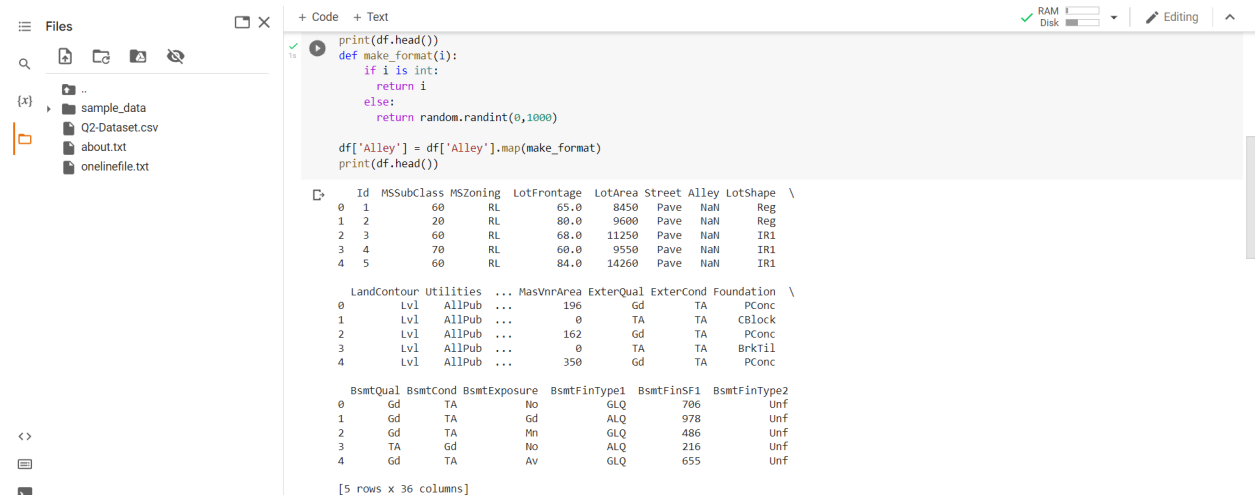# Question 1 :
Output:


```python
import re
a=open("onelinefile.txt",'r')

l=[]
l[:0]=a

for i in range(1,len(l)-1):
        s=str(a[i-1]+a[i]+a[i+1])
        #print(s)
        if re.match("[a-zA-Z][0-9][a-zA-Z]",s):
                l.insert(i,"\n")
print(",".join(l))
```

1Aaa3.5Maths2Bbb4.2Physics3Ccc7.62Chemistry4Ddd9.55Biology5Eee4.0Social6Fff7.6English7Ggg3.111Maths8Hhh9.99Physics9Iii1.23Civics

Question 2:
Output:


```python
print(df.head())
def make_format(i):
    if i is int:
        return i
    else:
        return random.randint(0,1000)

df['Alley'] = df['Alley'].map(make_format)
print(df.head())
```

```
   Id  MSSubClass MSZoning  LotFrontage  LotArea Street Alley LotShape  \
0   1          60       RL         65.0     8450   Pave   NaN      Reg
1   2          20       RL         80.0     9600   Pave   NaN      Reg
2   3          60       RL         68.0    11250   Pave   NaN      IR1
3   4          70       RL         60.0     9550   Pave   NaN      IR1
4   5          60       RL         84.0    14260   Pave   NaN      IR1

  LandContour Utilities  ... MasVnrArea ExterQual ExterCond Foundation  \
0         Lvl    AllPub  ...        196        Gd        TA      PConc
1         Lvl    AllPub  ...          0        TA        TA     CBlock
2         Lvl    AllPub  ...        162        Gd        TA      PConc
3         Lvl    AllPub  ...          0        TA        TA     BrkTil
4         Lvl    AllPub  ...        350        Gd        TA      PConc

  BsmtQual BsmtCond BsmtExposure BsmtFinType1 BsmtFinSF1 BsmtFinType2
0       Gd       TA           No          GLQ        706          Unf
1       Gd       TA           Gd          ALQ        978          Unf
2       Gd       TA           Mn          GLQ        486          Unf
3       TA       Gd           No          ALQ        216          Unf
4       Gd       TA           Av          GLQ        655          Unf

[5 rows x 36 columns]
```

3	TA	Gd		No	ALQ	216		Unf
4	Gd	TA		Av	GLQ	655		Unf

[5 rows x 36 columns]

	Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	\
0	1	60	RL	65.0	8450	Pave	856	Reg	
1	2	20	RL	80.0	9600	Pave	120	Reg	
2	3	60	RL	68.0	11250	Pave	859	IR1	
3	4	70	RL	60.0	9550	Pave	77	IR1	
4	5	60	RL	84.0	14260	Pave	517	IR1	

	LandContour	Utilities	...	MasVnrArea	ExterQual	ExterCond	Foundation	\
0	Lvl	AllPub	...	196	Gd	TA	PConc	
1	Lvl	AllPub	...	0	TA	TA	CBlock	
2	Lvl	AllPub	...	162	Gd	TA	PConc	
3	Lvl	AllPub	...	0	TA	TA	BrkTil	
4	Lvl	AllPub	...	350	Gd	TA	PConc	

	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2
0	Gd	TA	No	GLQ	706	Unf
1	Gd	TA	Gd	ALQ	978	Unf
2	Gd	TA	Mn	GLQ	486	Unf
3	TA	Gd	No	ALQ	216	Unf
4	Gd	TA	Av	GLQ	655	Unf

[5 rows x 36 columns]

Question 3:
Output:

```python
a=[]
atleast=[]
num=0
with open("about.txt", "r") as rf:
  for line in rf:
    a.extend(line.split())

  for i in a:
    if(len(i)>=6):
      atleast.append(i)

  num=len(atleast)
print("the words with atleast 6 letters are:")
print(atleast)
print("total numbers of words :",num)
```

```
the words with atleast 6 letters are:
['Python', 'almost', 'aspect', 'scientific', 'computing.', 'America', 'Python', 'crunch', 'financial', 'Facebook', 'Python', 'library', 'Panda
total numbers of words : 23
```