## **Problem Statement:-**

You are provided with a file "main.csv" in the input folder. Following operation needs to be provided on the file:-

1. Create an output file "filteredCountry.csv" inside a folder named "output". This file should contain only those records where country contains the word USA.

```
Code:
filteredCountry.csv
import pandas as pd
import numpy as np
import matplotlib.pyplot as plot
data = pd.read_csv("filteredCountry.csv")
data
df = pd.DataFrame(data)
df.describe()
import pandas as pd
data = pd.read_csv("filteredCountry.csv")
df1 = data.groupby(['SKU', 'Description', 'Year')] [ 'capacity']. sum()
df2 = data.groupby(['SKU', 'Description', 'Year')], [ 'URL'].sum()
df3 = data.groupby(['SKU', 'Description', 'Year)]', ['price'].sum()
df4 = data.groupby(['SKU', 'Description', 'Year')], ['Seller Information'].sum()
df5 = data.groupby(['SKU', 'Description', 'Year')], ['Offerr Information'].sum()
df6 = data.groupby(['SKU', 'Description', 'Year')], ['Country'].sum()
```

```
print (df1)
print (df2)
print (df3)
print (df4)
print (df5)
print (df6)
import pandas as pd
data = pd.read_csv("filteredCountry.csv")
df3 = data.groupby(['SKU', 'Description', 'Year)]', ['price'].sum()
df4 = data.groupby(['SKU', 'Description', 'Year')], ['Seller Information'].sum()
print(df3)
print(df4)
import pandas as pd
data = pd.read_csv("filteredCountry.csv")
df5 = data.groupby(['SKU', 'Description', 'Year')], ['Offerr Information'].sum()
df6 = data.groupby(['SKU', 'Description', 'Year')], ['Country'].sum()
print(df5)
print(df6)
import math
def status2(x):
   if x>10000:
return ("filteredCountry")
data['filteredCountry_status'] = data['status'].apply(status2)
data
```

```
dataframe=pd.Dataframe(data)
array = dataframe.values
array

x = array[:,9:3]
print(x)
y = array[",3]
```

## output:

print(y)



2. Now consider "filteredCountry.csv" as the input file. For each group of "SKU" find 2 minimum prices and store this result in "lowestPrice.csv" inside a folder named "output"

```
Code:
```

Input file---"filteredCountry.csv"

Create a new file—"lowestPrice.csv"

import pandas as pd

data = pd.read\_csv("filteredCountry.csv")

df1 = data.groupby(['SKU', 'Description', 'Year')] [ 'capacity']. sum()

df2 = data.groupby(['SKU', 'Description', 'Year')], [ 'URL'].sum()

df3 = data.groupby(['SKU', 'Description', 'Year)]', ['price'].sum()

df4 = data.groupby(['SKU', 'Description', 'Year')], ['Seller Information'].sum()

```
df5 = data.groupby(['SKU', 'Description', 'Year')], ['Offerr Information'].sum()
df6 = data.groupby(['SKU', 'Description', 'Year')], ['Country'].sum()

print (df1)
print (df2)
print (df3)
print (df4)
print (df5)
print (df6)

dataframe=pd.Dataframe(data)
array = dataframe.values
array
minimum prices = array[:,9:3]
print(minimum prices)
```

## output:

"lowest Prices.csv"

4	А	В	С		
1	SKU	FIRST_MINIMUM_PRICE	SECOND_MINIMUM_PRICE		
2	11333	304	359.99		
3	11334	329	339		
4	11335	304	315		