Handling Missing Values

Pandas Replace | Handling Missing Values Using Pandas

Replace “Priyang” with “Anil”.

	Name	Marks	Grades
0	Priyang	98.0	NaN
1	Aadhya	NaN	AB
2	Krisha	99.0	AA
3	Vedant	87.0	NaN
4	Parshv	90.0	AC
5	Mittal	NaN	BA
6	Archana	82.0	not available
7	Priyang	78.0	-99

```
import pandas as pd
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace(to_replace="Priyang",value="Anil")
print(sr)
```

	Name	Marks	Grades
0	Anil	98.0	NaN
1	Aadhya	NaN	AB
2	Krisha	99.0	AA
3	Vedant	87.0	NaN
4	Parshv	90.0	AC
5	Mittal	NaN	BA
6	Archana	82.0	not available
7	Anil	78.0	-99

Replace “Priyang” & “Aadhya” with “Anil”

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace( to_replace: ["Priyang","Aadhya"], value: "Anil")
print(sr)
```

```
      Name  Marks          Grades
0     Anil   98.0             NaN
1     Anil    NaN              AB
2   Krisha   99.0              AA
3   Vedant   87.0             NaN
4   Parshv   90.0              AC
5   Mittal    NaN              BA
6  Archana   82.0  not available
7     Anil   78.0             -99
```

Replace NaN with 4o

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace(np.nan, value: 40)
print(sr)
```

```
      Name  Marks          Grades
0  Priyang   98.0              40
1   Aadhya   40.0              AB
2   Krisha   99.0              AA
3   Vedant   87.0              40
4   Parshv   90.0              AC
5   Mittal   40.0              BA
6  Archana   82.0  not available
7  Priyang   78.0             -99
```

Replace Marks column NaN with 40 and column NaN with FF

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace({"Marks":{np.nan:40},"Grades":{np.nan:"FF"}})
print(sr)
```

```
      Name  Marks          Grades
0  Priyang   98.0              FF
1   Aadhya   40.0              AB
2   Krisha   99.0              AA
3   Vedant   87.0              FF
4   Parshv   90.0              AC
5   Mittal   40.0              BA
6  Archana   82.0  not available
7  Priyang   78.0             -99
```

Replace “not available” ,np.nan,”-99" of Grades column to FF

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace( to_replace: {"Grades":["not available",np.nan,"-99"]}, value: "FF")
print(sr)
```

```
      Name  Marks Grades
0  Priyang   98.0     FF
1   Aadhya    NaN     AB
2   Krisha   99.0     AA
3   Vedant   87.0     FF
4   Parshv   90.0     AC
5   Mittal    NaN     BA
6  Archana   82.0     FF
7  Priyang   78.0     FF
```

Replace Grade Values

```python
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace( to_replace: ["FF","AA","AB","BA"], value: ["FAIL","VERY GOOD","EXCELLENT","GOOD"])
print(sr)
```

	Name	Marks	Grades
0	Priyang	98.0	NaN
1	Aadhya	NaN	EXCELLENT
2	Krisha	99.0	VERY GOOD
3	Vedant	87.0	NaN
4	Parshv	90.0	AC
5	Mittal	NaN	GOOD
6	Archana	82.0	not available
7	Priyang	78.0	-99

Replace NaN values with ffill

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Downloads\\data_#na.csv")
print(data)
sr=data.replace(np.nan,method="ffill",limit=1)
print(sr)
```

```
      Name  Marks          Grades
0  Priyang   98.0             NaN
1   Aadhya   98.0              AB
2   Krisha   99.0              AA
3   Vedant   87.0              AA
4   Parshv   90.0              AC
5   Mittal   90.0              BA
6  Archana   82.0  not available
7  Priyang   78.0             -99
```

Clear data of Marks column using Regex

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Desktop\\minipro.csv")
print(data)
sr=data.replace( to_replace: {"Marks":"[A-Za-z]"}, value: " ",regex=True)
print(sr)
```

```
      Name Marks Grades
0  Priyang    98     NaN
1   Aadhya   NaN      AB
2   Krisha    99      AA
3   Vedant   NaN     NaN
4   Parshv    90      AC
5   Mittal   NaN      BA
6  Archana    82     NaN
7  Priyang    78     -99
```

Replace NaN values of Marks column with 0

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Desktop\\minipro.csv")
print(data)
sr=data.replace( to_replace: {"Marks":np.nan}, value: 0)
print(sr)
```

```
      Name Marks Grades
0   Priyang   98M    NaN
1    Aadhya     0     AB
2    Krisha   99M     AA
3    Vedant     0    NaN
4    Parshv   90M     AC
5    Mittal     0     BA
6   Archana   82M    NaN
7   Priyang   78M    -99
```

Replace NaN value(first only) of Grades column with “FF” using ‘at’ method

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Desktop\\minipro.csv")
print(data)
data.at[0,"Grades"]="FF"
print(data)
```

```
      Name Marks Grades
0  Priyang   98M     FF
1   Aadhya   NaN     AB
2   Krisha   99M     AA
3   Vedant   NaN    NaN
4   Parshv   90M     AC
5   Mittal   NaN     BA
6  Archana   82M    NaN
7  Priyang   78M    -99
```

Replace NaN value of Marks column with 0 using iat method

```
import pandas as pd
import numpy as np
data=pd.read_csv("C:\\Users\\Dell\\Desktop\\minipro.csv")
print(data)
data.iat[1,1]=0
print(data)
```

```
      Name Marks Grades
0  Priyang   98M    NaN
1   Aadhya     0     AB
2   Krisha   99M     AA
3   Vedant   NaN    NaN
4   Parshv   90M     AC
5   Mittal   NaN     BA
6  Archana   82M    NaN
7  Priyang   78M    -99
```