In [4]:
```
import pandas as pd
```

In [5]:
```
AcademicPerformance={"Name":['Sanika Khirit','Dnyanesh Bachhav','Yadnesh Wani'
```

In [6]:
```
df=pd.DataFrame(AcademicPerformance)
```

In [7]:
```
df
```

Out[7]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
3	Suyog Sabale	24	71.0
4	Sakshi Dherange	25	NaN

In [8]:
```
df.isna()
```

Out[8]:

	Name	Age	Marks
0	False	False	False
1	False	False	False
2	False	False	False
3	False	False	False
4	False	False	True

In [9]:
```
df.isnull()
```

Out[9]:

	Name	Age	Marks
0	False	False	False
1	False	False	False
2	False	False	False
3	False	False	False
4	False	False	True

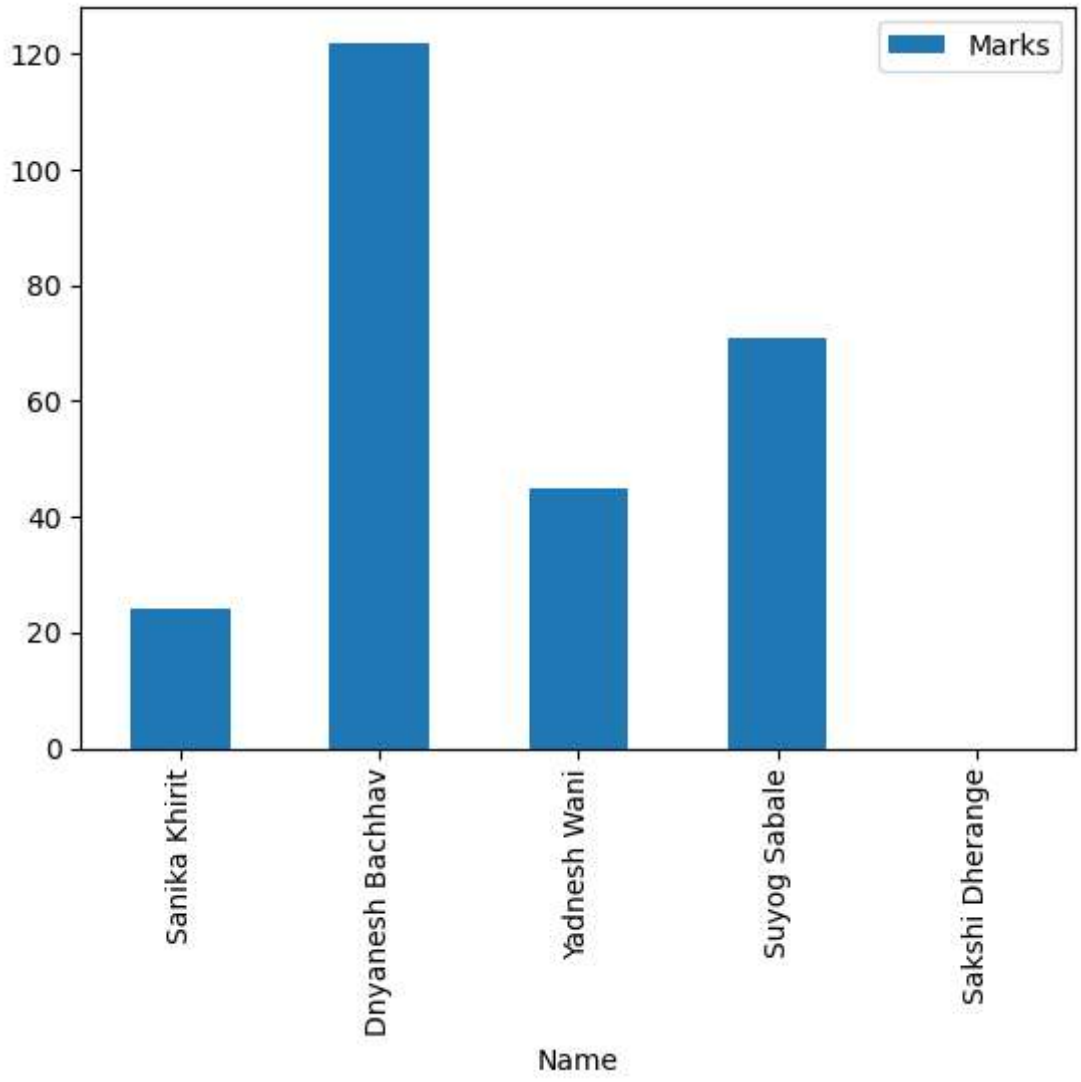
In [10]:
```
df.dropna()
```

Out[10]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
3	Suyog Sabale	24	71.0

In [11]:
```
df.plot.bar(x='Name',y='Marks')
```

Out[11]: <AxesSubplot:xlabel='Name'>



In [12]:
```
df.fillna(0)
```

Out[12]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
3	Suyog Sabale	24	71.0
4	Sakshi Dherange	25	0.0

In [13]:
```
df.dropna()
```

Out[13]:

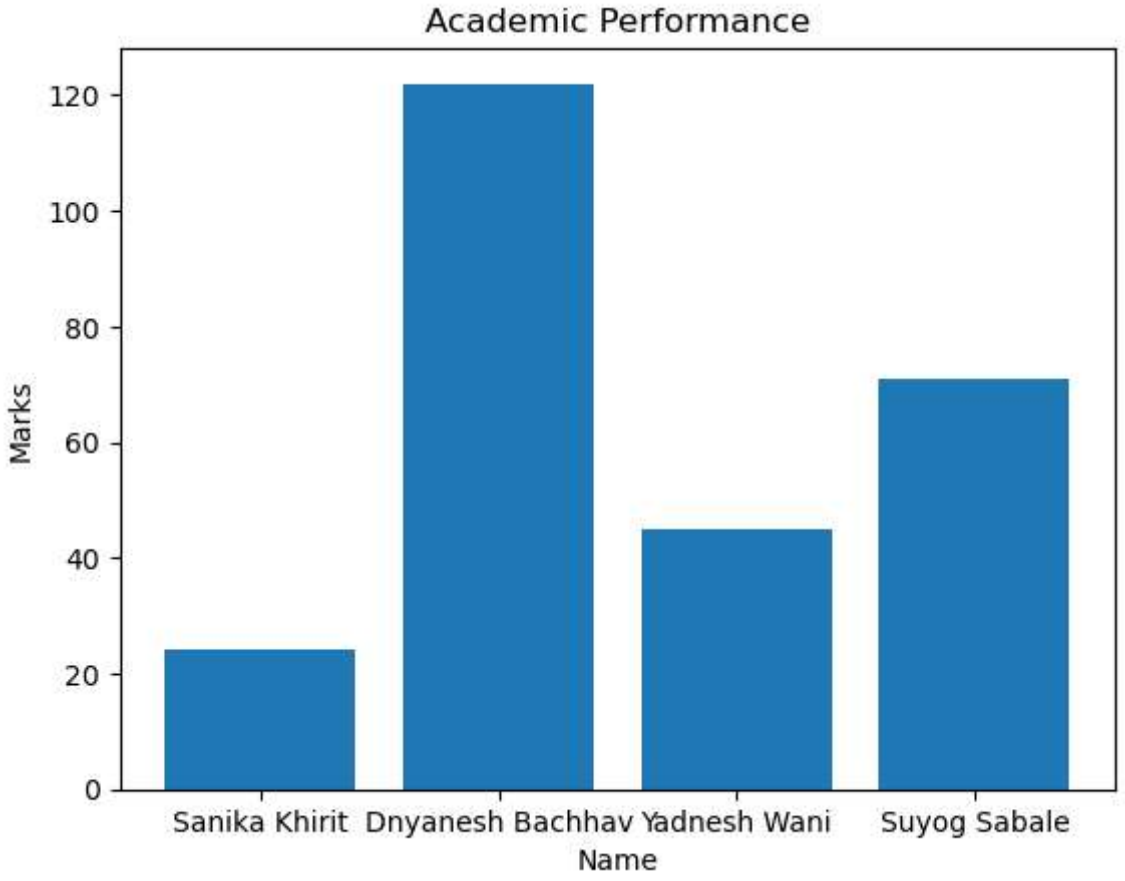
	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
3	Suyog Sabale	24	71.0

In [14]:
```
import matplotlib.pyplot as plt
```

In [15]:
```
X=df['Name']
```

In [16]:
```
Y=df['Marks']
```

In [17]:
```
plt.bar(X,Y)
plt.title('Academic Performance')
plt.xlabel("Name")
plt.ylabel("Marks")
plt.show()
```



In [18]:
```
data={"Name":"Vrushali Datir","Age":None,"Marks":89}
```

In [19]:
```
df=df.append(data,ignore_index=True)
```

```
C:\Users\Lenovo\AppData\Local\Temp\ipykernel_10800\94978126.py:1: FutureWarni
ng: The frame.append method is deprecated and will be removed from pandas in
a future version. Use pandas.concat instead.
  df=df.append(data,ignore_index=True)
```

In [ ]:
```
```

In [20]:
```
df
```

Out[20]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
3	Suyog Sabale	24	71.0
4	Sakshi Dherange	25	NaN
5	Vrushali Datir	None	89.0

In [21]:
```
df.drop(3,axis=0,inplace=True)
```

In [22]:
```
df
```

Out[22]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
4	Sakshi Dherange	25	NaN
5	Vrushali Datir	None	89.0

In [23]:
```
df.dtypes
```

Out[23]:
```
Name      object
Age       object
Marks    float64
dtype: object
```

In [24]:
```
convert_dict = {'Marks':float,
                'Age': int
                }

df['Marks'].astype(float)
```

Out[24]:
```
0     24.0
1    122.0
2     45.0
4      NaN
5     89.0
Name: Marks, dtype: float64
```

In [25]:
```
df
```

Out[25]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
4	Sakshi Dherange	25	NaN
5	Vrushali Datir	None	89.0

In [26]:
```
df.dtypes
```

Out[26]:
```
Name      object
Age       object
Marks    float64
dtype: object
```

In [ ]:
```

```

In [27]:
```
df
```

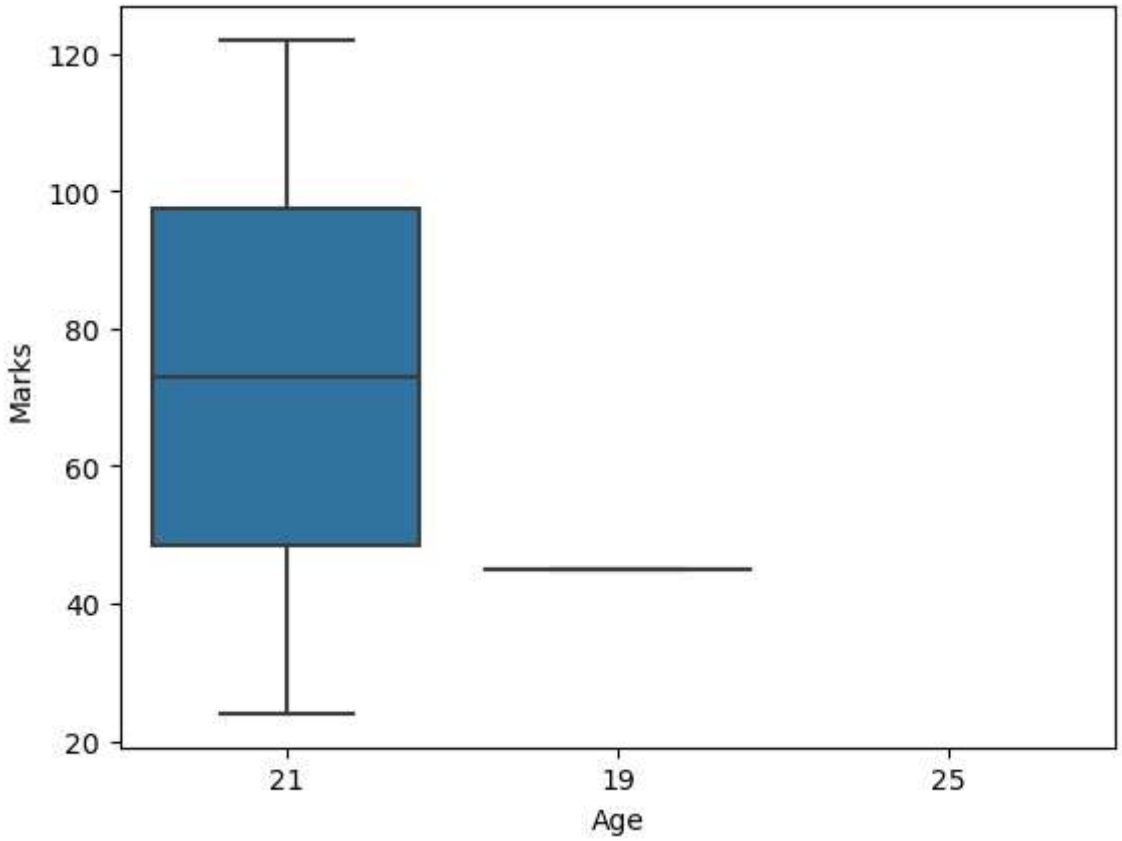
Out[27]:

	Name	Age	Marks
0	Sanika Khirit	21	24.0
1	Dnyanesh Bachhav	21	122.0
2	Yadnesh Wani	19	45.0
4	Sakshi Dherange	25	NaN
5	Vrushali Datir	None	89.0

In [28]:
```
import seaborn as sns
```

In [29]:
```
sns.boxplot(data=df,x='Age',y='Marks')
```

Out[29]: <AxesSubplot:xlabel='Age', ylabel='Marks'>



In [ ]:

In [ ]:

In [ ]:

In [ ]: