

# EDS Make-up Session Activity 1

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```
EDS > makeup_activity.py > ...
1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 1. Total number of passengers
7 print("1. Total number of passengers:")
8 print(len(df))
9 print("\n")
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup\_activity.py  
1. Total number of passengers:  
891

```
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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 2. Percentage of passengers who survived
7 print("2. Percentage of passengers who survived:")
8 print((df['Survived'].mean() * 100).round(2))
9 print("\n")
10
```

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PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup\_activity.py  
2. Percentage of passengers who survived:  
38.38

```
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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 3. Number of passengers in each class
7 print("3. Number of passengers in each class:")
8 print(df['Pclass'].value_counts())
9 print("\n")
10
```

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PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup\_activity.py  
3. Number of passengers in each class:  
Pclass  
3 491  
1 216  
2 184  
Name: count, dtype: int64

```
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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 4. Average fare paid by passengers
7 print("4. Average fare paid by passengers:")
8 print(df['Fare'].mean())
9 print("\n")
10
```

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PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup\_activity.py

4. Average fare paid by passengers:  
32.204207968574636

5. Average age by sex:  
Sex  
female 27.915709  
male 30.726645  
Name: Age, dtype: float64

```
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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 5. Average age of male and female passengers
7 print("5. Average age by sex:")
8 print(df.groupby('Sex')['Age'].mean())
9 print("\n")
10
```

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PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup\_activity.py

5. Average age by sex:  
Sex  
female 27.915709  
male 30.726645  
Name: Age, dtype: float64

```
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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 6. Number of passengers who traveled alone
7 print("6. Number of passengers who traveled alone:")
8 print(df[(df['SibSp'] == 0) & (df['Parch'] == 0)].shape[0])
9 print("\n")
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup\_activity.py

6. Number of passengers who traveled alone:  
537

```

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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 7. Survival rate by class
7 print("7. Survival rate by class:")
8 print(df.groupby('Pclass')['Survived'].mean())
9 print("\n")
10

```

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```

PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup_activity.py
7. Survival rate by class:
Pclass
1    0.629630
2    0.472826
3    0.242363
Name: Survived, dtype: float64

```

```

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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 8. Most common age of passengers
7 print("8. Most common age of passengers:")
8 print(df['Age'].mode()[0])
9 print("\n")
10

```

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```

PS D:\om\MIT-AoE\EDS> & C:/Users/premo/AppData/Local/Microsoft/WindowsApps/python3.13.exe d:/om/MIT-AoE/EDS/makeup_activity.py
8. Most common age of passengers:
24.0

```

```

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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 9. Fare range (min to max)
7 print("9. Fare range (min, max):")
8 print((df['Fare'].min(), df['Fare'].max()))
9 print("\n")
10

```

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```

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9. Fare range (min, max):
(np.float64(0.0), np.float64(512.3292))

```

```

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1 import pandas as pd
2
3 # Load dataset
4 df = pd.read_csv(r"D:\om\MIT-AoE\EDS\titanic.csv")
5
6 # 10. Passengers with missing age
7 print("10. Passengers with missing age:")
8 print(df['Age'].isna().sum())
9 print("\n")

```

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```

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10. Passengers with missing age:
177

```