## AIM:

To clean the dataset by handling missing values, removing duplicates, performing data type conversion, and normalizing data using standardization and min-max scaling.

1. Handlingmissing values: detection, filling, and dropping

2. Removing duplicates and unnecessary data

```
print("\nBefore Removing Duplicates:", df.shape)

df = df.drop_duplicates()

print("After Removing Duplicates:", df.shape)

Before Removing Duplicates: (6, 4)
    After Removing Duplicates: (5, 4)
```

2. Data type conversion and ensuring consistency

```
[ ] df['Gender'] = df['Gender'].astype('category')
    print("\nData Types After Conversion:\n", df.dtypes)

Data Types After Conversion:
    Name        object
    Age        float64
    Score       float64
    Gender        category
    dtype: object
```

3. Normalize data (e.g., standardization, min-max scaling).