import pandas as pd  
from pandas import DataFrame  
  
from age\_group\_survival.age\_group\_utils import create\_age\_to\_survival\_df  
  
titanic\_training\_df: DataFrame = pd.read\_csv("../data/train.csv")  
titanic\_training\_df.head()

|  | PassengerId | Survived | Pclass | Name | Sex | Age | SibSp | Parch | Ticket | Fare | Cabin | Embarked |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 0 | 3 | Braund, Mr. Owen Harris | male | 22.0 | 1 | 0 | A/5 21171 | 7.2500 | NaN | S |
| 1 | 2 | 1 | 1 | Cumings, Mrs. John Bradley (Florence Briggs Th... | female | 38.0 | 1 | 0 | PC 17599 | 71.2833 | C85 | C |
| 2 | 3 | 1 | 3 | Heikkinen, Miss. Laina | female | 26.0 | 0 | 0 | STON/O2. 3101282 | 7.9250 | NaN | S |
| 3 | 4 | 1 | 1 | Futrelle, Mrs. Jacques Heath (Lily May Peel) | female | 35.0 | 1 | 0 | 113803 | 53.1000 | C123 | S |
| 4 | 5 | 0 | 3 | Allen, Mr. William Henry | male | 35.0 | 0 | 0 | 373450 | 8.0500 | NaN | S |

age\_survival\_df = create\_age\_to\_survival\_df(titanic\_training\_df)  
  
age\_survival\_df.head()

|  | Survived | Age | AgeGroup |
| --- | --- | --- | --- |
| 0 | 0 | 22.0 | 20-29 |
| 1 | 1 | 38.0 | 30-39 |
| 2 | 1 | 26.0 | 20-29 |
| 3 | 1 | 35.0 | 30-39 |
| 4 | 0 | 35.0 | 30-39 |