1. **suppose you are a teacher,and you want to analyze the exam scores of your students in a particular subject.you have recorded the scores of your students for a recent exam and you want to represent this data using a pandas series.Input-: students = ['Alice'.'Bob','Charlie','David','Eve','frank','Grace', exam\_scores = [92,88,76,94,82,90,85,89,78,91]**

import pandas as pd

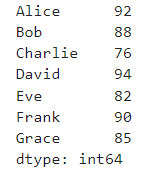
students = ['Alice', 'Bob', 'Charlie', 'David', 'Eve', 'Frank', 'Grace']

exam\_scores = [92, 88, 76, 94, 82, 90, 85]

exam\_scores\_series = pd.Series(exam\_scores, index=students)

print(exam\_scores\_series)

output-:



**2) suppose you want to track and analyze your household expenses for a month.you have recorded the expenses for various categories,such as grociers,utilities,rent,transportation,and entertainment.you can represent this expense data using a pandas series Input-:#Expense categories categories = ['Groceries','Utilities','Rent','Transporataion','Entertainment'] #Monthly expense data(example data in USD) expenses = [500,200,1200,300**,150]

import pandas as pd

categories = ['Groceries', 'Utilities', 'Rent', 'Transportation', 'Entertainment']

expenses = [500, 200, 1200, 300, 150]

expenses\_series = pd.Series(expenses, index=categories)

print(expenses\_series)

output-:

