

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

1.2.1. Pass or Fail

53/27

Write a Python program that accepts the number of courses and the marks of a student in those courses.

The grade is determined based on the aggregate percentage:

- If the aggregate percentage is greater than 75, the grade is Distinction.
- If the aggregate percentage is greater than or equal to 60 but less than 75, the grade is First Division.
- If the aggregate percentage is greater than or equal to 50 but less than 60, the grade is Second Division.
- If the aggregate percentage is greater than or equal to 40 but less than 50, the grade is Third Division.

Input Format:

The first input will be an integer n , the number of courses.

The second input will be n integers representing the marks of the student in each of the n courses, separated by a space.

Output Format:

If the student passes all courses:

- Print the aggregate percentage (rounded to two decimal places).
- Print the grade based on the aggregate percentage.

Sample Test Cases

passorFa...

Submit

```
1 n=int(input())
2 marks=list(map(int,input().split()))
3 if all(m >= 40 for m in marks):
4     agg=sum(marks)/n
5     print("Aggregate Percentage:", '%.2f'%agg)
6     if agg >= 75:
7         print("Grade: Distinction")
8     elif agg >= 60 and agg < 75:
9         print("Grade: First Division")
10    elif agg >= 50 and agg < 60:
```

Average time0.008 s8.25 ms

Maximum time0.009 s9.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 18 ms

Debug

Expected output

Actual output

5

5

Aggregate Percentage: 82.00

Aggregate Percentage: 82.00

Grade: Distinction

Grade: Distinction

Test case 29 ms

Terminal

Test cases

26°C Clear

Search

ENG IN

00:26 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

1.2.2. Fibonacci series using Recursive Function02:34

Write a Python program to find the Fibonacci series of a given number of terms using recursive function calls.

Expected Output-1:
Enter terms for Fibonacci series: 5
0 1 1 2 3

Expected Output-2:
Enter terms for Fibonacci series: 9
0 1 1 2 3 5 8 13 21

Instructions:

- Your input and output must follow the input and output layout mentioned in the visible sample test case.
- Hidden test cases will only pass when users' input and output match the expected input and output.

Sample Test Cases

Explorer

fib.py

```
1 def fib(n):
2     if n==0:
3         return 0
4     elif n==1:
5         return 1
6     else:
7         return fib(n-1)+fib(n-2)
8
9
10
```

Average time0.004 s4.50 ms

Maximum time0.005 s5.00 ms

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 15 ms

Expected output

Enter terms for Fibonacci series: 5
0 1 1 2 3

Actual output

Enter terms for Fibonacci series: 5
0 1 1 2 3

Test case 24 ms

Terminal

Test cases

PrevResetSubmitNext

26°C Clear

Search

ENG IN

00:27 07-05-2025

202401090042@mitaoe.ac.inSupportLogout

1.2.3. Pattern - 102:29

Write a Python program to print a pattern of asterisks in the form of a right-angled triangle.

Input Format:

The input is an integer, representing the number of rows in the pattern.

Output Format

The output should display the pattern of asterisks (*), with each row containing an increasing number of asterisks.

Note:

Refer to the displayed test cases for the sample pattern.

Sample Test Cases

rightangl...

```
1 n=int(input())
2 for i in range(1,n+1):
3     for j in range(0,i):
4         print("*", end=" ")
5     print()
```

Average time0.006 s6.33 ms

Maximum time0.008 s8.00 ms

2 out of 2 shown test case(s) passed

4 out of 4 hidden test case(s) passed

Test case 17 ms

Debug

Expected output

5

Actual output

5

Terminal

Test cases

PrevResetSubmitNext

26°C Clear

Search

ENG IN

00:2707-05-2025

202401090042@mitaoe.ac.inSupportLogout

1.2.4. Pattern - 206:29

Write a Python program to print a right-angled triangle pattern of numbers.

Input Format:
The input is an integer, representing the number of rows in the pattern.

Output Format:
The output should display the pattern of numbers, with each row containing increasing numbers starting from 1 up to the row number.

Note:
Refer to the displayed test cases for the sample pattern.

Sample Test Cases

numberP...

```
1 n=int(input())
2 for i in range (1,n+1):
3     for j in range (1,i+1):
4         print(j,end=" ")
5     print()
6
```

Average time
0.005 s
5.60 ms

Maximum time
0.006 s
6.00 ms

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 1 6 ms

Debug

Expected output	Actual output
5	5
1	1
1 2	1 2
1 2 3	1 2 3
1 2 3 4	1 2 3 4
1 2 3 4 5	1 2 3 4 5

TerminalTest cases

< PrevResetSubmitNext >

26°C Clear

Search

ENG IN00:27 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

2.2.1. Linear search Technique04:33

Write a program to check whether the given element is present or not in the array of elements using linear search.

Input format:

- The first line of input contains the array of integers which are separated by space
- The last line of input contains the key element to be searched

Output format:

- If the element is found, print the index.
- If the element is not found, print **Not found**.

Sample Test Case:

Input:
1 2 3 4 3 5 6
3

Output:
2

Sample Test Cases

CTP1709...

```
1 arr = list(map(int,input().split()))
2 key = int(input())
3 found =False
4 for i in range(len(arr)):
5     if arr[i] == key:
6         print(i)
7         found = True
8         break
9 if not found:
10    print("Not found")
```

Average time0.012 s12.00 ms

Maximum time0.013 s13.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 112 ms

Expected output
1 2 3 4 3 5 6
3
2

Actual output
1 2 3 4 3 5 6
3
2

Test case 213 ms

Terminal

Test cases

< Prev

Reset

Submit

Next >

26°C
Clear

Search

ENG
IN

00:27
07-05-2025

2.2.2. Captain of the Team

You are provided with the heights of 11 cricket players (in centimeters). Your task is to identify the tallest player, who will be selected as the captain of the team.

Input Format:
The first line of input will contain 11 integers, each representing the height of a player (in centimeters), each separated by a space.

Output Format
The output should be the height (in centimeters) of the tallest player.

Sample Test Cases

captainof...

```
1 height = list(map(int, input().split()))
2 tallest = 0
3 for height in height:
4     if height > tallest:
5         tallest = height
6     print(tallest)
7
```

Average time
0.006 s
5.67 ms

Maximum time
0.008 s
8.00 ms

1 out of 1 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 1 8 ms

Expected output
171 169 185 156 174 191 186 190 187 172
160
191

Actual output
171 169 185 156 174 191 186 190 187 172
160
191

Terminal Test cases

26°C Clear

Search

ENG IN 00:28 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

3.2.1. Numpy: Matrix Operations06:23

The given code takes two 3×3 matrices, `matrix_a`, and `matrix_b`, as input from the user and converts them into NumPy arrays.

Task:

You are required to compute and display the results of the following matrix operations:

1. **Addition** (`matrix_a + matrix_b`)
2. **Subtraction** (`matrix_a - matrix_b`)
3. **Element-wise Multiplication** (`matrix_a * matrix_b`)
4. **Matrix Multiplication** (`matrix_a · matrix_b`)
5. **Transpose of Matrix A**

Input Format:

- The user will input 3 rows for `matrix_a`, each containing 3 integers separated by spaces.
- Similarly, the user will input 3 rows for `matrix_b`, each containing 3 integers separated by spaces.

Output Format:

The program should display the results of the operations in the following order:

Sample Test Cases

matrixOp...

```
1 import numpy as np
2
3 # Input matrices
4 print("Enter Matrix A:")
5 matrix_a = np.array([list(map(int, input().split())) for i in range(3)])
6
7 print("Enter Matrix B:")
8 matrix_b = np.array([list(map(int, input().split())) for i in range(3)])
```

Average time0.029 s28.50 ms

Maximum time0.033 s33.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 133 ms

Debug

Expected output	Actual output
Enter Matrix A:	Enter Matrix A:
1 2 3	1 2 3
4 5 6	4 5 6
7 8 9	7 8 9
Enter Matrix B:	Enter Matrix B:
1 1 1	1 1 1

Terminal

Test cases

Prev

Reset

Submit

Next

26°C Clear

Search

00:28 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

3.2.2. Numpy: Horizontal and Vertical Stacking of Arrays05:30

You are given two arrays `arr1` and `arr2`. You need to perform horizontal and vertical stacking operations on them using NumPy.

- **Horizontal Stacking:** Stack the two matrices horizontally (side by side).
- **Vertical Stacking:** Stack the two matrices vertically (one below the other).

Input Format:

- The program should first prompt the user to input two 3x3 arrays.
- Each array consists of 3 rows, and each row contains 3 space-separated integers.
- The user will input the two arrays row by row.

Output Format:

- The program should display the result of the Horizontal Stack (side-by-side stacking) of the two arrays.
- The program should then display the result of the Vertical Stack (one below the other) of the two arrays.

Sample Test Cases

stacking.py

```
1 import numpy as np
2
3 # Input matrices
4 print("Enter Array1:")
5 arr1 = np.array([list(map(int, input().split())) for i in range(3)])
6
7 print("Enter Array2:")
8 arr2 = np.array([list(map(int, input().split())) for i in range(3)])
```

Average time0.024 s24.00 ms

Maximum time0.029 s29.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 129 ms

Debug

Expected output	Actual output
Enter Array1:	Enter Array1:
1 2 3	1 2 3
4 5 6	4 5 6
7 8 9	7 8 9
Enter Array2:	Enter Array2:
4 5 6	4 5 6

Terminal

Test cases

PrevResetSubmitNext

26°C Clear

Search

ENG IN

00:28 07-05-2025

202401090042@mitaoe.ac.inSupportLogout

3.2.3. Numpy: Custom Sequence Generation02:03

Write a Python program that takes the following inputs from the user:

- Start value: The starting point of the sequence.
- Stop value: The sequence should end before this value.
- Step value: The increment between each number in the sequence.

The program should then generate a sequence using `numpy` based on these inputs and print the generated sequence.

Input Format:

- The user will input three integer values: start, stop, and step, each on a new line.

Output Format:

- The program should print the generated sequence based on the input values.

Sample Test Cases

customS...

```
1 import numpy as np
2
3 # Take user input for the start, stop, and step of the sequence
4 start = int(input())
5 stop = int(input())
6 step = int(input())
7
8 a = np.arange(start, stop, step)
9 print(a)
10 # Print the generated sequence
```

Average time0.011 s11.50 ms

Maximum time0.013 s13.00 ms

2 out of 2 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 113 ms

Expected output

Actual output

3

3

10

10

2

2

[3 5 7 9]

[3 5 7 9]

Test case 210 ms

Terminal

Test cases

Prev

Reset

Submit

Next

26°C Clear

Search

ENG IN

00:29 07-05-2025

3.2.4. Numpy: Arithmetic and Statistical Operations, Mathematical Opera...03:19

You are given two arrays A and B. Your task is to complete the function array_operations, which will convert these lists into NumPy arrays and perform the following operations:

1. Arithmetic Operations:

• Compute the element-wise sum, difference, and product of the two arrays.

2. Statistical Operations:

• Calculate the mean, median, and standard deviation of array A.

3. Bitwise Operations:

• Perform bitwise AND, bitwise OR, and bitwise XOR on the arrays (ex: A₁ OR B₁).

Input Format:

• The first line contains space-separated integers representing the elements of array A.

• The second line contains space-separated integers representing the elements of array B.

Output Format:

• For each operation (arithmetic, statistical, and bitwise), print the results in the specified format as shown in sample test cases.

Sample Test Cases

different...

1import numpy as np

2

3def array_operations(A, B):

4

5 # Convert A and B to NumPy arrays

6 A = np.array(A)

7 B = np.array(B)

8

9 # Arithmetic Operations

10 sum_result = A + B

Average time

0.013 s

13.33 ms

Maximum time

0.017 s

17.00 ms

1 out of 1 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 117 ms

Debug

Expected output

1 2 3 4

5 6 7 8

Element-wise Sum: 6 8 10 12

Element-wise Difference: -4 -4 -4 -4

Element-wise Product: 5 12 21 32

Mean of A: 2.5

Actual output

1 2 3 4

5 6 7 8

Element-wise Sum: 6 8 10 12

Element-wise Difference: -4 -4 -4 -4

Element-wise Product: 5 12 21 32

Mean of A: 2.5

Terminal

Test cases

26°C

Clear

Search

ENG IN

00:29

07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

3.2.5. Numpy: Copying and Viewing Arrays01:57

The given code takes a list of integers as input and converts it into a NumPy array. Your task is to complete the code by:

- Creating a view of the `original_array` and assigning it to `view_array`.
- Creating a copy of the `original_array` and assigning it to `copy_array`.

After completing these steps, observe how modifying the view affects the `original_array`, while modifying the copy does not.

Input Format:

- A single line of space-separated integers.

Output Format:

- After modifying the view:

Original array after modifying view: <original_array>
View array: <view_array>

- After modifying the copy:

Original array after modifying copy: <original_array>
Copy array: <copy array>

Sample Test Cases

copyAnd...

1 import numpy as np
2
3 inputlist = list(map(int,input().split(" ")))
4
5 # Original array
6 original_array = np.array(inputlist)
7
8 # Create a view
9 view_array =original_array.view()
10

Average time0.006 s6.00 ms
Maximum time0.008 s8.00 ms

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 17 ms

Expected output
10 20 30 40 50 60 70 80
Original array after modifying view: [99 20 30 40 50 60 70 80]
View array: [99 20 30 40 50 60 70 80]
Original array after modifying copy: [99 20 30 40 50 60 70 80]
Copy array: [10 88 30 40 50 60 70 80]

Actual output
10 20 30 40 50 60 70 80
Original array after modifying view: [99 20 30 40 50 60 70 80]
View array: [99 20 30 40 50 60 70 80]
Original array after modifying copy: [99 20 30 40 50 60 70 80]
Copy array: [10 88 30 40 50 60 70 80]

Terminal

Test cases

PrevResetSubmitNext

26°C Clear

Search

ENG IN00:29 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

3.2.6. Numpy: Searching, Sorting, Counting, Broadcasting04:45

The given code in the editor takes a single array, `array1`, as space-separated integers as input from the user.

Additionally, it takes the following inputs:

- `search_value`: The value to search for in the array.
- `count_value`: The value to count its occurrences in the array.
- `broadcast_value`: The value to add for broadcasting across the array.

You need to complete the code to perform the following operations:

- Searching**: Find the indices where `search_value` appears in `array1` and print these indices.
- Counting**: Count how many times `count_value` appears in `array1` and print the count.
- Broadcasting**: Add `broadcast_value` to each element of `array1` using broadcasting, and print the resulting array.
- Sorting**: Sort `array1` in ascending order and print the sorted array.

Input Format:

- A single line containing space-separated integers representing `array1`.
- An integer `search_value` represents the value to search for in the array.
- An integer `count_value` represents the value to count in the array.
- An integer `broadcast_value` represents the value to add to each element of the array.

Sample Test Cases+

arrayOpe...

1import numpy as np
2
3# Input array from the user
4array1 = np.array(list(map(int, input().split())))
5
6# Searching
7search_value = int(input("Value to search: "))
8count_value = int(input("Value to count: "))
9broadcast_value = int(input("Value to add: "))
10

Average time0.019 s18.76 ms
Maximum time0.022 s22.00 ms

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 122 ms
Expected output1 1 1 2 2 2
Value-to-search: 1
Value-to-count: 2
Value-to-add: 2
[0 1 2]
3
Actual output1 1 1 2 2 2
Value-to-search: 1
Value-to-count: 2
Value-to-add: 2
[0 1 2]
3

TerminalTest cases

Debugger

26°C Clear

Search

00:30 07-05-2025

44:40 🔊 🌙 📝 🔗 -

- **Print all student details:** Display the complete details of all students, including roll numbers and marks for all subjects.
- **Find total students:** Determine the total number of students in the dataset.
- **Print all student roll numbers:** Extract and print the roll numbers of all students.
- **Print Subject 1 marks:** Extract and print the marks of all students in Subject 1.
- **Find minimum marks in Subject 2:** Identify the lowest marks in Subject 2.
- **Find maximum marks in Subject 3:** Identify the highest marks in Subject 3.
- **Print all subject marks:** Display the marks of all students for each subject.
- **Find total marks of students:** Compute the total marks for each student across all subjects.
- **Find the average marks of each student:** Compute the average marks for each student.
- **Find average marks of each subject:** Compute the average marks for all students in each subject.
- **Find average marks of Subject 1 and Subject 2:** Compute the average marks for Subject 1 and Subject 2.
- **Find average marks of Subject 1 and Subject 3:** Compute the average marks for

+

Submit

0.013 s

0.013 s

13.00 ms

1 out of 1 shown test case(s) passed

✓ Test case 1 13 ms

 Debug

Actual output

All student Details:

[[301., -67., -77., -88.]]

[302, -78, -88, -77.]

[303. - 45. - 56. - 89.]

[304., 88., 98., 45.]

[305. 78. 88. 99.]

Test cases

[◀ Prev](#)
[Reset](#)
[Submit](#)
[Next ▶](#)

Login - CodeTantra - Course

CODETANTRA

Home

202401090042@mitaoe.ac.inSupportLogout

4.2.1. Month with the Highest Total Sales12:12

Write a Python program that takes the file name of a CSV file as input, reads the data, and performs the following operations:

The CSV file contains the columns: Date, Product, Quantity, Price, and City.

Group the data by Month and calculate the total sales for each month.

Find the month with the highest total sales and display it.

Also, display the total sales for the best month.

Sample Data:

Date,Product,Quantity,Price,City

2025-01-01,Product A,5,20,New York

2025-01-01,Product B,3,15,Los Angeles

2025-01-02,Product A,7,20,New York

2025-01-02,Product C,4,30,Chicago

2025-01-03,Product B,2,15,Chicago

2025-01-03,Product A,8,20,Los Angeles

2025-01-04,Product C,6,30,New York

2025-01-04,Product B,5,15,Los Angeles

2025-01-05,Product A,3,20,Chicago

2025-01-05,Product C,10,30,Los Angeles

Sample Test Cases

monthFor...sales_dat...

1import pandas as pd

2

3# Prompt the user for the file name

4file_name = input()

5

6# Load the data

7df = pd.read_csv(file_name)

8df['Date'] = pd.to_datetime(df['Date'])

9

10#Extract the month from the Date column

Average time0.031 s30.67 ms

Maximum time0.068 s68.00 ms

1 out of 1 shown test case(s) passed

2 out of 2 hidden test case(s) passed

Test case 168 ms

Expected output

sales_data.csv

Best month: 2025-01

Total sales: \$1210.00

Actual output

sales_data.csv

Best month: 2025-01

Total sales: \$1210.00

Terminal

Test cases

26°C Clear

Search

ENG IN

00:30 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

4.2.2. Best Selling Product03:54

Write a Python program that takes the file name of a CSV file as input, reads the data, and performs the following operations:

- The CSV file contains the columns: Date, Product, Quantity, Price, and City.
- Find the product that sold the most in terms of quantity sold.
- Display the product that sold the most and the total quantity sold for that product.

Sample Data:

Date,Product,Quantity,Price,City
2025-01-01,Product A,5,20,New York
2025-01-01,Product B,3,15,Los Angeles
2025-01-02,Product A,7,20,New York
2025-01-02,Product C,4,30,Chicago
2025-01-03,Product B,2,15,Chicago
2025-01-03,Product A,8,20,Los Angeles
2025-01-04,Product C,6,30,New York
2025-01-04,Product B,5,15,Los Angeles
2025-01-05,Product A,3,20,Chicago
2025-01-05,Product C,10,30,Los Angeles

Sample Test Cases

monthFor...sales_dat...Submit

1import pandas as pd
2
3# Prompt the user for the file name
4file_name = input()
5
6# Load the data
7df = pd.read_csv(file_name)
8
9
10# Find the product with the highest total quantity sold

Average time0.017 s17.00 ms
Maximum time0.034 s34.00 ms

1 out of 1 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 134 ms
Expected output
sales_data.csv
Best-selling product: Product A
Total quantity sold: 23
Actual output
sales_data.csv
Best-selling product: Product A
Total quantity sold: 23

TerminalTest cases

26°C Clear

Search

ENG IN

00:31 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

4.2.3. City that Sold the Most Products03:30

Write a Python program that takes the file name of a CSV file as input, reads the data, and performs the following operations:

- The CSV file contains the columns: Date, Product, Quantity, Price, and City.
- Group the data by City and calculate the total quantity of products sold for each city.
- Find the city that sold the most products (based on the total quantity sold).

Sample Data:

Date,Product,Quantity,Price,City
2025-01-01,Product A,5,20,New York
2025-01-01,Product B,3,15,Los Angeles
2025-01-02,Product A,7,20,New York
2025-01-02,Product C,4,30,Chicago
2025-01-03,Product B,2,15,Chicago
2025-01-03,Product A,8,20,Los Angeles
2025-01-04,Product C,6,30,New York
2025-01-04,Product B,5,15,Los Angeles
2025-01-05,Product A,3,20,Chicago
2025-01-05,Product C,10,30,Los Angeles

Sample Test Cases+

monthFor...sales_dat...Submit

```
1 import pandas as pd
2
3 # Prompt the user for the file name
4 file_name = input()
5
6 # Load the data
7 df = pd.read_csv(file_name)
8
9 # write the code..
10 city_sales = df.groupby("City")["Quantity"].sum()
```

Average time0.016 s16.00 msMaximum time0.033 s33.00 ms

1 out of 1 shown test case(s) passed2 out of 2 hidden test case(s) passed

Test case 133 ms

Debug

Expected outputActual output

sales_data.csvsales_data.csv

City sold the most products: Los AngelesCity sold the most products: Los Angeles

TerminalTest cases

26°C Clear

Search

ENG IN00:3107-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

4.2.4. Most Frequently Sold Product Pairs1430

Write a Python program that takes the file name of a CSV file as input, reads the data, and performs the following operations:

The CSV file contains the following columns: Date, Product, Quantity, Price, and City.

For each date, find all pairs of products that were sold together (i.e., two products sold on the same date).

Output the product pair/s that was sold most frequently.

Sample Data:

Date,Product,Quantity,Price,City
2025-01-01,Product A,5,20,New York
2025-01-01,Product B,3,15,Los Angeles
2025-01-02,Product A,7,20,New York
2025-01-02,Product C,4,30,Chicago
2025-01-03,Product B,2,15,Chicago
2025-01-03,Product A,8,20,Los Angeles
2025-01-04,Product C,6,30,New York
2025-01-04,Product B,5,15,Los Angeles
2025-01-05,Product A,3,20,Chicago
2025-01-05,Product C,10,30,Los Angeles

Explanation:

Sample Test Cases

frequenti...sales_dat...

Submit

1import pandas as pd
2from itertools import combinations
3from collections import Counter
4
5# Prompt user to input the file name
6file_name = input()
7
8# Read data from the specified CSV file
9df = pd.read_csv(file_name)
10

Average time0.016 s16.33 ms
Maximum time0.032 s32.00 ms

1 out of 1 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 132 ms

Debug

Expected output
sales_data.csv
Product A and Product B: 2 times
Product A and Product C: 2 times

Actual output
sales_data.csv
Product A and Product B: 2 times
Product A and Product C: 2 times

Terminal

Test cases

26°C Clear

Search

ENG IN

00:31 07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

4.2.4. Most Frequently Sold Product Pairs1430

Write a Python program that takes the file name of a CSV file as input, reads the data, and performs the following operations:

The CSV file contains the following columns: Date, Product, Quantity, Price, and City.

For each date, find all pairs of products that were sold together (i.e., two products sold on the same date).

Output the product pair/s that was sold most frequently.

Sample Data:

Date,Product,Quantity,Price,City
2025-01-01,Product A,5,20,New York
2025-01-01,Product B,3,15,Los Angeles
2025-01-02,Product A,7,20,New York
2025-01-02,Product C,4,30,Chicago
2025-01-03,Product B,2,15,Chicago
2025-01-03,Product A,8,20,Los Angeles
2025-01-04,Product C,6,30,New York
2025-01-04,Product B,5,15,Los Angeles
2025-01-05,Product A,3,20,Chicago
2025-01-05,Product C,10,30,Los Angeles

Explanation:

Sample Test Cases

frequenti...sales_dat...

Submit

1import pandas as pd
2from itertools import combinations
3from collections import Counter
4
5# Prompt user to input the file name
6file_name = input()
7
8# Read data from the specified CSV file
9df = pd.read_csv(file_name)
10

Average time0.016 s16.33 ms
Maximum time0.032 s32.00 ms

1 out of 1 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 132 ms
Expected output
sales_data.csv
Product A and Product B: 2 times
Product A and Product C: 2 times
Actual output
sales_data.csv
Product A and Product B: 2 times
Product A and Product C: 2 times

TerminalTest cases

PrevResetSubmitNext

26°C Clear
Search
00:31
07-05-2025

4.2.5. Titanic Dataset Analysis and Data Cleaning

You are provided with the Titanic dataset containing information about passengers on the Titanic. Your task is to write Python code to answer the following questions based on the dataset. For each question, perform necessary data cleaning, transformations, and calculations as required.

- Display the first 5 rows of the dataset.
- Display the last 5 rows of the dataset.
- Get the shape of the dataset (number of rows and columns).
- Get a summary of the dataset (using .info()).
- Get basic statistics (mean, standard deviation, etc.) of the dataset using .describe().
- Check for missing values and display the count of missing values for each column.
- Fill missing values in the 'Age' column with the median age.
- Fill missing values in the 'Embarked' column with the most frequent value (mode).
- Drop the 'Cabin' column due to many missing values.
- Create a new column, 'FamilySize' by adding the 'SibSp' and 'Parch' columns.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
-------------	----------	-----	-----	-------	-------	--------	------	-------	----------

Sample Test Cases

titanicDat...

```
1 import pandas as pd
2 import numpy as np
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # 1. Display the first 5 rows of the dataset
8 print(data.head())
9
10 # 2. Display the last 5 rows of the dataset
```

Average time0.183 s183.00 ms

Maximum time0.183 s183.00 ms

1 out of 1 shown test case(s) passed

Test case 1183 ms

Debug

Expected output

Actual output

... PassengerId Survived Pclass ... F
are Cabin Embarked
0 1 0 3 7.2
500 ... NaN S
1 2 1 1 71.2
833 ... C85 C
2 3 1 3 7.9
250 ... NaN S

... PassengerId Survived Pclass ... F
Fare Cabin Embarked
0 1 0 3 7.
2500 ... NaN S
1 2 1 1 71.
2833 ... C85 C
2 3 1 3 7.
9250 ... NaN S

Terminal

Test cases

Prev

Reset

Submit

Next

26°C
Clear

Search

00:32
07-05-2025

36-44

You are provided with the Titanic dataset containing information about passengers on the Titanic. Your task is to write Python code to answer the following questions based on the dataset.

1. Create a new column 'IsAlone' which is 1 if the passenger is alone (FamilySize = 0), otherwise 0.
2. Convert the 'Sex' column to numeric values (male: 0, female: 1).
3. One-hot encode the 'Embarked' column, dropping the first category.
4. Get the mean age of passengers.
5. Get the median fare of passengers.
6. Get the number of passengers by class.
7. Get the number of passengers by gender.
8. Get the number of passengers by survival status.
9. Calculate the survival rate of passengers.
10. Calculate the survival rate by gender.

The Titanic dataset contains columns as shown below.

Pa ss en	Su rvi ve	Pcl as	Na me	Se x	Ag e	Sib Sp	Pa rch	Tic ket	Far e	Ca bin	Em bar ke
----------------	-----------------	-----------	----------	---------	---------	-----------	-----------	------------	----------	-----------	-----------------

+

Submit

```
1 import pandas as pd
2 import numpy as np
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6 data['FamilySize'] = data['SibSp'] + data['Parch']
7
8 data['IsAlone'] = np.where(data['FamilySize'] == 0, 1, 0)
9
10 # 2. Convert 'Sex' to numeric (male: 0, female: 1)
```

Maximum time

0.061 s

1 out of 1 shown test case(s) passed

 Debug

Actual output

29.69911764705882

14.4542

3. . . 49

1-2210

2 • 18

Name: Pclass, dtype: int64

Test cases

[← Prev](#)
[Reset](#)
[Submit](#)
[Next →](#)

© 2014 Pearson Education, Inc. or its affiliate(s). All rights reserved.

13:44

1. Calculate the survival rate by class.
2. Calculate the survival rate by embarkation location (Embarked_S).
3. Calculate the survival rate by family size (FamilySize).
4. Calculate the survival rate by being alone (IsAlone).
5. Get the average fare by passenger class (Pclass).
6. Get the average age by passenger class (Pclass).
7. Get the average age by survival status (Survived).
8. Get the average fare by survival status (Survived).
9. Get the number of survivors by class (Pclass).
10. Get the number of non-survivors by class (Pclass).

Pass en	Su rvi ve	Pl as	Na me	Se x	Ag e	Sib Sp	Pa rch	Tic ket	Far e	Ca bin	Em bar ke
------------	-----------------	----------	----------	---------	---------	-----------	-----------	------------	----------	-----------	-----------------

 $+$

Submit

Average time **0.077 s**  Maximum time **0.077 s**  **1 out of 1 shown test case(s) passed**

Actual output

Pclass

1 - - 0.629630

2. . . . 0.472826

3-A 342363

```
Name: Survived, dtype: float64
```

Embarked S

Terminal Test cases

[◀ Prev](#)
[Reset](#)
[Submit](#)
[Next ▶](#)

32-16

You are provided with the Titanic dataset containing information about passengers on the Titanic. Your task is to write Python code to answer the following questions based on the dataset.

1. Get the number of survivors by gender (Sex).
2. Get the number of non-survivors by gender (Sex).
3. Get the number of survivors by embarkation location (Embarked_S).
4. Get the number of non-survivors by embarkation location (Embarked_S).
5. Calculate the percentage of children (Age < 18) who survived.
6. Calculate the percentage of adults (Age >= 18) who survived.
7. Get the median age of survivors.
8. Get the median age of non-survivors.
9. Get the median fare of survivors.
10. Get the median fare of non-survivors.

The Titanic dataset contains columns as shown below.

Pass en	Su rvi ve	Pcl as	Na me	Se x	Ag e	Sib Sp	Pa rch	Tic ket	Far e	Ca bin	Em bar ke
------------	-----------------	-----------	----------	---------	---------	-----------	-----------	------------	----------	-----------	-----------------

+

Submit

```
1 import pandas as pd
2 import numpy as np
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6 data = pd.get_dummies(data, columns=['Embarked'],
7 drop_first=True)
8
9 # 1. Get the number of survivors by gender
```

Maximum time

0.056 s

1 out of 1 shown test case(s) passed

 Debug

Actual output

female . . . 233

male - - - - 109

Name: Sex, dtype: int64

male --- 468

female 81

Name: Sex: dtype: int64

Test cases

[◀ Prev](#)
[Reset](#)
[Submit](#)
[Next ▶](#)

44:13

Dataset Information:

- Pclass: Passenger class (1 = First, 2 = Second, 3 = Third).
- Gender: Gender of the passenger (male/female).
- Age: Age of the passenger.
- Survived: Survival status (0 = Did not survive, 1 = Survived).
- Fare: Ticket fare paid by the passenger.

To represent these trends, you will create 5 visualizations using Matplotlib. The visualizations should be arranged in a 3x2 grid (3 rows and 2 columns).

Sample Test Cases

+

Submit

Average time

0.970 s

Maximum time

0.970 s

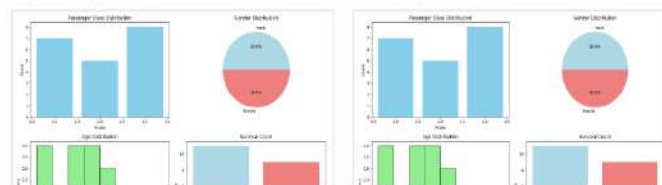
1 out of 1 shown test case(s) passed

✓ Test case 1 970 ms

 Debug

Expected output

Actual output



 Terminal

Test cases

[◀ Prev](#)
[Reset](#)
[Submit](#)
[Next ▶](#)

202401090042@mitaoe.ac.inSupportLogout

5.2.2. Histogram of passenger information of Titanic03:08

Write a Python code to plot a histogram for the distribution of the 'Age' column from the Titanic dataset. The histogram should display the frequency of different age ranges with the following specifications:

- Use **30 bins** for the histogram.
- Set the **edge color** of the bars to **black (k)**.
- Label the x-axis as **'Age'** and the y-axis as **'Frequency'**.
- Add the title **"Age Distribution"** to the histogram.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked

Sample Data:

Sample Test Cases

Histogram...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time0.244 s244.00 msMaximum time0.244 s244.00 ms

1 out of 1 shown test case(s) passed

Test case 1244 ms

Expected output

Actual output

Terminal

Test cases

24°CPartly cloudy

Search

00:3307-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

5.2.3. Bar plot of survival rate of passengers06:32

Write a Python code to plot a bar chart that shows the count of passengers who survived and did not survive in the Titanic dataset. The chart should display the following specifications:

1. Use the 'Survived' column to show the count of survivors (0 = Did not survive, 1 = Survived).
2. Set the chart type to 'bar'.
3. Add the title "Survival Count" to the chart.
4. Label the x-axis as 'Survived' and the y-axis as 'Count'.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked

Sample Data:

Sample Test Cases

BarPlotOf...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time0.289 s289.00 ms

Maximum time0.289 s289.00 ms

1 out of 1 shown test case(s) passed

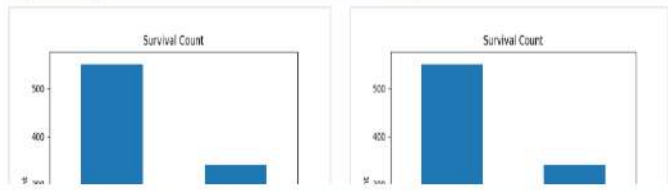
Test case 1289 ms

Debug

Expected output

Actual output

Survival Count



TerminalTest cases

24°CPartly cloudy

Search

ENG IN00:3407-05-2025

5.2.4. Bar Plot for Survival by Gender03:01

Write a Python code to plot a stacked bar chart that shows the count of passengers who survived and did not survive, grouped by gender, in the Titanic dataset. The chart should display the following specifications:

1. Group the data by the 'Sex' column, then use the `value_counts()` function to count the occurrences of survivors (0 = Did not survive, 1 = Survived) for each gender.
2. Use a **stacked bar chart** to display the survival counts.
3. Add the title "Survival by Gender" to the chart.
4. Label the x-axis as 'Gender' and the y-axis as 'Count'.
5. The legend should indicate 'Not Survived' and 'Survived'.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked

Sample Test Cases

BarPlotOf...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time0.312 s312.00 ms

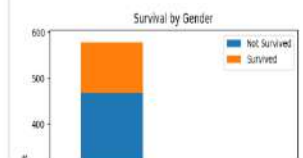
Maximum time0.312 s312.00 ms

1 out of 1 shown test case(s) passed

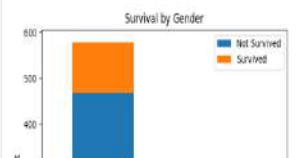
Test case 10.312 ms

Debug

Expected output



Actual output



TerminalTest cases

Gold+2.93%

Search

00:3407-05-2025

5.2.5. Bar Plot for Survival by Pclass

05:44

Write a Python code to plot a stacked bar chart that shows the count of passengers who survived and did not survive, grouped by passenger class (**Pclass**), in the Titanic dataset. The chart should display the following specifications:

1. Group the data by the **Pclass** column and count the number of survivors (0 = Did not survive, 1 = Survived) for each class using **value_counts()**.
2. Use a **stacked bar chart** to display the survival counts.
3. Add the title "**Survival by Pclass**" to the chart.
4. Label the x-axis as '**Pclass**' and the y-axis as '**Count**'.
5. The legend should indicate '**Not Survived**' and '**Survived**'.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked

Sample Test Cases

BarPlotOf...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time
0.349 s
349.00 ms

Maximum time
0.349 s
349.00 ms

1 out of 1 shown test case(s) passed

Test case 1 349 ms

Debug

Expected output

Actual output

Survival by Pclass

Survival by Pclass

Not Survived

Survived

Terminal

Test cases

Gold +2.93%

Search

00:34 07-05-2025

5.2.6. Bar Plot for Survival by Embarked

05:25

Write a Python code to plot a stacked bar chart showing the survival count for passengers based on their embarkation location in the Titanic dataset.
The chart should display the following specifications:
1. Use the **Embarked** column to determine the embarkation location. After converting this column into dummy variables (using **pd.get_dummies()**), plot the survival count based on the **Embarked_Q** column (representing passengers who embarked from Queenstown) in relation to survival.
2. Set the chart type to 'bar' and make it stacked.
3. Add the title "**Survival by Embarked**" to the chart.
4. Label the x-axis as "**Embarked**" and the y-axis as '**Count**'.
5. Include a legend to distinguish between survivors and non-survivors (label the legend as '**Survived**' and '**Not Survived**').

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
-------------	----------	--------	------	-----	-----	-------	-------	--------	------	-------	----------

Sample Test Cases

BarPlotOf...

1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)

Average time
0.317 s
317.00 ms

Maximum time
0.317 s
317.00 ms

1 out of 1 shown test case(s) passed

Test case 1 317 ms

Expected output

Actual output

Terminal

Test cases

Gold
+2.98%

Search

00:35
07-05-2025

5.2.7. Box plot for Age Distribution

03:35

Write a Python code to plot a boxplot that shows the distribution of the 'Age' column from the Titanic dataset across different passenger classes. The boxplot should display the following specifications:

1. Use the **Pclass** column to group the data for the boxplot.

2. Set the title of the plot to **"Age by Pclass"**.

3. Remove the default subtitle with **plt.suptitle("")**.

4. Label the x-axis as **'Pclass'** and the y-axis as **'Age'**.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked

Sample Data:

Sample Test Cases

BoxPlotF...

1import pandas as pd

2import matplotlib.pyplot as plt

3

4# Load the Titanic dataset

5data = pd.read_csv('Titanic-Dataset.csv')

6

7# Data Cleaning

8data['Age'].fillna(data['Age'].median(), inplace=True)

9data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)

10data.drop('Cabin', axis=1, inplace=True)

Average time

0.259 s

259.00 ms

Maximum time

0.259 s

259.00 ms

1 out of 1 shown test case(s) passed

Test case 1 259 ms

Debug

Expected output

Actual output

Age by Pclass

Age by Pclass

Terminal

Test cases

Gold

+2.93%

Search

00:35

07-05-2025

5.2.8. Box Plot for Age by Survived

Write a Python code to plot a boxplot that shows the distribution of the 'Age' column from the Titanic dataset based on whether passengers survived or not. The boxplot should display the following specifications:

- Use the **Survived** column to group the data for the boxplot (0 = Did not survive, 1 = Survived).
- Set the title of the plot to **"Age by Survival"**.
- Remove the default subtitle with `plt.suptitle("")`.
- Label the x-axis as **'Survived'** and the y-axis as **'Age'**.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked

Sample Data

Sample Test Cases

BoxPlotF...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time

0.271 s

Maximum time

0.271 s

1 out of 1 shown test case(s) passed

Test case 1

Expected output

Actual output

Terminal

Test cases

Gold

+2.98%

Search

00:35

07-05-2025

5.2.9. Box Plot for Fare by Pclass

Write a Python code to plot a boxplot that shows the distribution of the 'Fare' column from the Titanic dataset based on the passenger class (Pclass). The boxplot should display the following specifications:

1. Use the **Pclass** column to group the data for the boxplot.

2. Set the title of the plot to **"Fare by Pclass"**.

3. Remove the default subtitle with **plt.suptitle("")**.

4. Label the x-axis as **'Pclass'** and the y-axis as **'Fare'**.

The Titanic dataset contains columns as shown below,

Passenger Id	Survived	Pclass	Name	Sex	Age	SibSp	ParCh	Ticket	Fare	Cabin	Embarked

Sample Data:

Sample Test Cases

BoxPlotF...

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time

0.254 s

Maximum time

0.254 s

1 out of 1 shown test case(s) passed

Test case 1

Expected output

Actual output

Terminal

Test cases

Gold

+2.93%

Search

00:36

07-05-2025

Login - CodeTantra - Course

CODETANTRA Home

202401090042@mitaoe.ac.in Support Logout

5.2.10. Scatter Plot for Age vs. Fare05:02

Write a Python code to plot a scatter plot showing the relationship between the 'Age' and 'Fare' columns in the Titanic dataset. The scatter plot should display the following specifications:

1. Use the **Age** column for the x-axis and the **Fare** column for the y-axis.

2. Set the title of the plot to "**Age vs. Fare**".

3. Label the x-axis as '**Age**' and the y-axis as '**Fare**'.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked

Sample Data:

PassengerId, Survived, Pclass, Name, Sex, Age, SibSp, Parch, Ticket, Fare, Cabin, Embarked

Sample Test Cases

AgeFareS...

1import pandas as pd

2import matplotlib.pyplot as plt

3

4# Load the Titanic dataset

5data = pd.read_csv('Titanic-Dataset.csv')

6

7# Data Cleaning

8data['Age'].fillna(data['Age'].median(), inplace=True)

9data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)

10data.drop('Cabin', axis=1, inplace=True)

Average time0.224 s224.00 ms

Maximum time0.224 s224.00 ms

1 out of 1 shown test case(s) passed

Test case 1224 ms

Debug

Expected output

Actual output

Age vs. Fare

Age vs. Fare

Terminal

Test cases

Gold+2.93%

Search

00:3607-05-2025

🔍 ⌂ 🔍 Login - CodeTantra - Course

CODETANTRA 🏠 Home

202401090042@mitaoe.ac.in Support Logout

5.2.11. Scatter Plot for Age vs. Fare by Survived 05:54

Write a Python code to plot a scatter plot showing the relationship between the 'Age' and 'Fare' columns in the Titanic dataset, with points color-coded by survival status. The scatter plot should display the following specifications:

1. Use the **Age** column for the x-axis and the **Fare** column for the y-axis.
2. Color the points based on the **Survived** column: **Red** for passengers who did not survive (**Survived = 0**). **Blue** for passengers who survived (**Survived = 1**).
3. Set the title of the plot to "**Age vs. Fare by Survival**".
4. Label the x-axis as '**Age**' and the y-axis as '**Fare**'.

The Titanic dataset contains columns as shown below,

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked

Sample Data

Sample Test Cases +

AgeFareS...

Submit

```
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # Load the Titanic dataset
5 data = pd.read_csv('Titanic-Dataset.csv')
6
7 # Data Cleaning
8 data['Age'].fillna(data['Age'].median(), inplace=True)
9 data['Embarked'].fillna(data['Embarked'].mode()[0], inplace=True)
10 data.drop('Cabin', axis=1, inplace=True)
```

Average time 0.241 s 241.00 ms

Maximum time 0.241 s 241.00 ms

1 out of 1 shown test case(s) passed

Test case 1 241 ms

Debug

Expected output

Actual output

Age vs. Fare by Survival

Age vs. Fare by Survival

Terminal

Test cases

Gold +2.93%

Search

🔍 📅 📁 🎧 🎮 🚀

ENG IN 📶 🔊 🔋

00:36 07-05-2025