Home Learning Task – Holiday Destination

1. A screenshot of a computer

   Description automatically generatedHow many rows and columns are there in your file:

“data.shape” code tells us how many rows and columns there are in the data file

From this we can tell that the data file has 15 rows and 5 columns

1. Print row 3-8 ( using iloc/loc).

A screenshot of a computer

Description automatically generated

Outcome using the iloc function; retrieves data from row 3 to 8

Index 0 is the first row therefore to view the 3rd row we have to put 2 inside the bracket instead of 3

1. A screenshot of a computer

   Description automatically generatedFind the mean number of all-inclusive hotels across all destinations.

Using .mean function

Output: Mean of 11.2

1. A screenshot of a computer

   Description automatically generated Find the lowest scoring destination.

Then using loc function to retrieve all the data that is related to the lowest score rating from which we can see that the lowest scoring destination is “Thailand’.

First using the .min() function to identify the data with the lowest score

A screenshot of a computer

Description automatically generated**Alternative:**

Then using this code to just print out the destination alone corresponding to the lowest score which is ‘Thailand”.

First similar to above, using the .min() function to identify the data with the lowest score and print it out.

1. A screenshot of a computer

   Description automatically generatedFind the highest scoring destination.

Then using loc function to retrieve all the data that is related to the highest score rating from which we can see that the highest scoring destination is “Maldives’.

First using the .max() function to identify the data with the highest score

**Alternative:**

A screenshot of a computer

Description automatically generated

First similar to above, using the .max() function to identify the data with the highest score and print it out.

Then using this code to just print out the destination alone corresponding to the highest score which is ‘Maldives”.

1. Find all the destinations where there are more than 9 all-inclusive hotels.

A screenshot of a computer

Description automatically generated

Input

Outcome: shows all the data of the destinations that have more than 9 all-inclusive hotels

1. A screenshot of a computer

   Description automatically generatedFilter the data by score above 8.

Outcome: shows all the data of the destinations that have score of more than 8

Input

1. A screenshot of a computer

   Description automatically generatedFilter the data score below 2

Outcome: shows all the data of the destinations that have score below 2. In this case there weren’t any data corresponding to the question however, there can be in other cases which can help us identify which holiday destinations people didn’t like/enjoy.

Input

1. A screenshot of a computer

   Description automatically generatedIs there a correlation between number of all-inclusive hotels and score?

Outcome: Negative Correlation so this indicates that the more all-inclusive hotels there are the lower the overall rating of the destination.

Input, the use of .corr function to find the correlation

1. Graphical user interface, application

   Description automatically generated Create a data visualisation diagram to show destination and highest scores?

Input, the use of .plot function to plot the graph. The bar chart has been used in this case

Graphical user interface, application

Description automatically generated

The bar chart has been plotted showing the relationship of different destinations with their overall scores. This helps us to visualise the data more clearly than when it’s on a table format.