

V2_using_pandas

November 1, 2025

1 Activity: Using Pandas

1.1 Introduction

In this activity you will practice using some of the basic functionality associated with Pandas. This activity will cover the following topics:

- Creating a `DataFrame`
- Displaying `DataFrame` information
- Accessing column data
- Getting ranges of column data
- Creating Series from dictionaries
- Using the `iloc()` and `loc()` methods
- Getting data from multiple columns
- Getting rows

Question 1 Create a DataFrame called `df` from the given CSV file `student_data.csv` then using the `df` DataFrame, assign the `Name` column to a Series called `names`.

```
[ ]: import pandas as pd  
# Your code here  
  
# your code here
```

```
[ ]: # Question 1 Grading Checks  
  
assert isinstance(df, pd.DataFrame), "Did you create a DataFrame called df?"  
assert isinstance(names, pd.Series), "Did you assign the Name column in a  
variable called names?"
```

Question 2 Using the `df` DataFrame, assign the `Age` and `Math Grade` columns to a DataFrame called `age_math`.

```
[ ]: # Your code here  
  
# your code here
```

```
[ ]: # Question 2 Grading Checks  
  
assert isinstance(age_math, pd.DataFrame), "Did you assign the Age and Math  
Grade columns to a variable called age_math?"
```

Question 3 Using the `.loc()` method, assign the Age and Math Grade columns for the first 30 rows of `df` to a variable called `first_thirty_loc`.

```
[ ]: # Your code here
```

your code here

```
[ ]: # Question 3 Grading Checks
```

```
assert isinstance(first_thirty_loc, pd.DataFrame), "Did you correctly assign  
→the first 30 rows to a variable called first_thirty_loc?"
```

Question 4 Get the even numbered rows from the Name and English Grade columns and assign the result to a variable called `even_rows_english`.

```
[ ]: # Your code here
```

your code here

```
[ ]: # Question 4 Grading Checks
```

```
assert isinstance(even_rows_english, pd.DataFrame), "Did you correctly assign  
→even numbered rows to a variable called even_rows_english? Hint: the first  
→row is index 0."
```