

# 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."
```