* Custom Modules
* Using Custom Modules in other programs
* Overview of main
* Best Practices to use functions in modules
  + Make sure to have only global variables, functions, etc in module.
  + Do not have any code snippets outside the functions and if condition related to main.
* Overview of standard libraries (libraries that are part of core python)
  + datetime
  + functools
  + sys
  + os
  + glob
  + itertools
  + logging
  + unittest
  + csv
  + json
  + typing (related to type hints)
* Overview of 3rd party libraries
  + requests
  + flask
  + django
  + fastapi
  + pandas
  + pyspark
  + matplotlib
  + scikit
  + boto3 for AWS

1. What is a Python module?

A) A package that contains multiple Python files

B) A file containing Python code

C) A library of pre-written code

D) A folder containing other modules

Answer: B) A file containing Python code

1. What is the purpose of a custom module in Python?

A) To create custom data types

B) To define custom functions and classes

C) To provide access to the standard library

D) To generate random numbers

Answer: B) To define custom functions and classes

1. How do you use a custom module in another program?

A) Import the module using the "import" keyword

B) Copy and paste the module code into the new program

C) Use the "run" command to execute the module code

D) Save the module as a separate file in the new program

Answer: A) Import the module using the "import" keyword

1. What is the purpose of the "main" function in a Python module?

A) To define the main program logic

B) To initialize global variables

C) To create a user interface

D) To provide an entry point for the module

Answer: D) To provide an entry point for the module

1. What is the best practice for using functions in a Python module?

A) Use only global variables in the module

B) Include code snippets outside of functions

C) Use if conditions to define function behavior

D) Keep function logic contained within the function

Answer: D) Keep function logic contained within the function

1. What is the purpose of the datetime module in Python?

A) To manipulate dates and times

B) To manage file directories

C) To perform mathematical operations

D) To interact with web APIs

Answer: A) To manipulate dates and times

1. What is the purpose of the functools module in Python?

A) To perform functional programming operations

B) To manage system-level functionality

C) To handle file input and output

D) To interact with databases

Answer: A) To perform functional programming operations

1. What is the purpose of the sys module in Python?

A) To manipulate system-level functionality

B) To manage file directories

C) To interact with web APIs

D) To perform mathematical operations

Answer: A) To manipulate system-level functionality

1. What is the purpose of the requests module in Python?

A) To interact with web APIs

B) To manipulate dates and times

C) To handle file input and output

D) To perform functional programming operations

Answer: A) To interact with web APIs

1. What is the purpose of the pandas library in Python?

A) To manipulate data in tabular form

B) To manage system-level functionality

C) To perform mathematical operations

D) To handle file input and output

Answer: A) To manipulate data in tabular form