December 5, 2024

steve stylin

Bellevue University

Advance Python

Module 9.2: Assignment: APIs

Introduction

Before diving into coding, it is essential to grasp the concept of APIs (Application Programming Interfaces). APIs allow different software applications to communicate with each other. They provide a set of rules and protocols for building and interacting with software applications. To ensure that your Python environment is set up correctly and can communicate with external APIs, you will first test a simple connection using the requests library. For this example, we will use the Open Notify API, which is a simple API that returns the number of people currently in space. <http://api.open-notify.org/astros.json>

The requests.get() function sends a GET request to the specified URL. The status\_code attribute of the response object indicates the result of the request. A status code of 200 signifies a successful connection.

A screen shot of a computer

Description automatically generated

We will retrieve data from an API that provides information about current astronauts, and print out the response from the requests, with no formatting.

A screen shot of a computer program

Description automatically generated

Print out the response with same formatting as the tutorial program:

A screenshot of a computer program

Description automatically generated

We have developed a Python program that utilizes Open Notify API. The tasks included testing the connection to the API, retrieving data, formatting the output, and documenting the process through screenshots in a Word document.