

Name:

Date:

Class:

# Google Colab Preparation Worksheet

**Objective:** This worksheet aims to prepare you to effectively use Google Colab, a cloud-based platform for writing and executing Python code. The following questions and tasks will help you become familiar with the basic functionalities of Google Colab.

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## Question 1: Account Setup

**Task:** Create a Google account if you do not have one.

**Question:** Why is it necessary to have a Google account to use Google Colab?

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## Question 2: Accessing Google Colab

**Task:** Navigate to the Google Colab website by visiting Google Colab.

**Question:** What do you see on the Google Colab homepage, and what are the options for creating a new notebook?

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## Question 3: Basic Notebook Operations

**Task:** Create a new notebook and name it "My First Notebook."

**Question:** Describe the process of renaming a notebook in Google Colab.

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#### Question 4: Running Code Cells

**Task:** In your new notebook, write and run a simple Python code that prints "Hello, Google Colab!"

**Question:** How do you execute a code cell in Google Colab, and what keyboard shortcut can you use to run the current cell?

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#### Question 5: Using Markdown Cells

**Task:** Add a new text cell and use Markdown to create a heading that says "Introduction to Google Colab" and a bullet list with the items "Python Coding," "Data Analysis," and "Machine Learning."

**Question:** What is the purpose of Markdown cells in Google Colab, and how do you add a heading and a bullet list using Markdown?

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#### Question 6: Installing Python Libraries

**Task:** In a new code cell, install the pandas library using pip.

**Question:** What is the command to install the pandas library in Google Colab, and why might you need to install additional libraries?

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### Question 7: Verifying Library Installation

**Task:** Verify the installation of the pandas library by importing it and printing its version.

**Question:** Write the code to import pandas and print its version. What is the importance of verifying library installation?

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### Question 8: Installing and Using Multiple Libraries

**Task:** Install the matplotlib and scipy libraries, and then create a simple plot using matplotlib.

**Question:** Write the commands to install matplotlib and scipy. Then, write a code snippet to create a simple plot using matplotlib.

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**Completion:** After answering these questions and completing the tasks, you should have a basic understanding of how to set up and use Google Colab, install necessary Python libraries, and run code cells.

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#### Resources for Further Learning:

- [Google Colab Welcome Page](#)
- [Google Colab Documentation](#)
- [Markdown Guide](#)
- [Pandas Documentation](#)
- [Matplotlib Documentation](#)
- [SciPy Documentation](#)

Feel free to refer to these resources for additional information and advanced features of Google Colab.