1. **Compare Python with other programming languages like Java and C++. What are the major differences and similarities?**
2. **Discuss the significance of variables in Python. How are variables declared and assigned in Python compared to other programming languages?**
3. **Explain the concept of short-circuit evaluation in Python with respect to logical operators. How does it impact conditional statements?**
4. **Describe how the else statement works with loops in Python. Write a program to demonstrate its usage.**
5. **What is a dictionary in Python? Explain how you can add, update, and remove items in a dictionary with examples.**
6. **Explain the difference between positional and keyword arguments in Python functions. Provide examples for each.**
7. **What is inheritance in Python? Write a Python program to demonstrate single and multiple inheritance.**
8. **Explain the role of NumPy in Python and its advantages over Python lists.**
9. **What is the primary purpose of the Pandas library, and how does it facilitate data analysis?**
10. **What is the purpose of the Matplotlib library in Python, and how does it differ from Seaborn?**
11. **What is Exploratory Data Analysis (EDA), and why is it an important step in the data science process?**
12. **What are infinite loops? Explain how you can avoid creating infinite loops in Python.**
13. **Compare tuples and lists in Python. What are the key differences, and when should you prefer one over the other?**
14. **What is the purpose of *args and \**kwargs in Python functions? Write a function to demonstrate their use.**
15. **How can you handle missing data in Pandas? Write a Python script to fill or drop missing values in a DataFrame.**