# AI ASSISTED CODING

# ASSIGNMENT-4.4

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BATCH-12

**TASK-1**

**PROMPT:**

Write a Python class BankAccount with a constructor for account\_holder and balance, and methods to deposit, withdraw, and show balance.

**CODE:**

A screenshot of a computer program

AI-generated content may be incorrect.

**EXPLANATION:**

A class BankAccount is created with name and balance. It has methods to deposit, withdraw, and show balance. This shows how classes and methods work in Python.

**OUTPUT:**

A screen shot of a computer

AI-generated content may be incorrect.

**TASK-2**

**PROMPT:**

Write a comment and start a loop to iterate over a list in Python.

**CODE:**

A screenshot of a computer

AI-generated content may be incorrect.

**EXPLANATION:**

A loop is written to go through each item in a list. This shows how loops can be used to check or print elements one by one.

**OUTPUT:**

A black screen with yellow text

AI-generated content may be incorrect.

**TASK-3**

**PROMPT:**

Write a Python function that takes age as input and uses if-elif-else to return whether the person is a child, teenager, adult, or senior.

**CODE:**

A screenshot of a computer program

AI-generated content may be incorrect.

**EXPLANATION:**

A function takes age and uses if-elif-else to say if a person is a child, teenager, adult, or senior. It shows how conditions work in Python.

**OUTPUT:**

A screen shot of a computer

AI-generated content may be incorrect.

**TASK-4**

**PROMPT:**

Write a comment and start a while loop in Python to reverse the digits of a number.

**CODE:**

A screenshot of a computer program

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**EXPLANATION:**

A while loop is used to reverse the digits of a number. The loop takes digits one by one and forms the reversed number.

**OUTPUT:**

A black screen with yellow text

AI-generated content may be incorrect.

**TASK-5**

**PROMPT:**  
Write a Python class Employee with attributes name and salary. Then create a subclass Manager that inherits from Employee and adds department.

**CODE:**

A screen shot of a computer

AI-generated content may be incorrect.

**EXPLANATION:**

An Employee class is created with name and salary, and a Manager class that also has department. This shows how inheritance works in Python.

**OUTPUT:**

A screenshot of a computer

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