AIAC LAB 6.3

LAB: AI-Based Code Completion – Classes, Loops, and Conditionals

ENROLLMENT NO: 2403A52001

NAME: K.Pardhasaradhi

COURSE : CSE(AI/ML)

BATCH: 01

DATE: 10-09-2025

Task Description 1:  
• Use AI to complete a Student class with attributes and a method.  
• Check output  
• Analyze the code generated by AI tool

Used Prompt:

generate a python code to complete a student class with attributes and a method and print the details. Take the inputs from the user.

A screen shot of a computer program

AI-generated content may be incorrect.

Task Description 2:  
• Prompt AI to complete a function that prints the first 10 multiples of a number using a  
loop.  
• Analyze the generated code  
• Ask AI to generate code using other controlled looping

Used Prompt:

generate a python code to print the first 10 multiples of a number using a loop. take input from the user.

A screenshot of a computer

AI-generated content may be incorrect.

Task Description 3:  
• Ask AI to write nested if-elif-else conditionals to classify age groups.  
• Analyze the generated code  
• Ask AI to generate code using other conditional statements

Used Prompt:

generate a python code to classify several age groups using if-else statements. take multiple ages from the user and make them as a particular group

A screenshot of a computer program

AI-generated content may be incorrect.

CODE EXPLANATION:

This code takes a list of ages as input, separated by commas. It then checks each age against a set of rules and prints out the corresponding age group classification for each one.

Task Description 4:  
• Generate a sum\_to\_n() function to calculate sum of first n numbers  
• Analyze the generated code  
• Get suggestions from AI with other controlled looping

Used Prompt:

generate a python function sum\_to\_n() to calculate the sum of first n numbers using a while loop. take the n value from the user.

A screenshot of a computer program

AI-generated content may be incorrect.

CODE EXPLANATION:

This code defines a function called sum\_to\_n that calculates the sum of all numbers from 1 up to a number you provide. It then asss you to enter that number and prints the calculated sum.

Task Description 5:  
• Use AI to build a BankAccount class with deposit, withdraw, and balance methods.  
• Analyze the generated code  
• Add comments and explain code

Used Prompt:

generate a python code to build a bank account class with deposit, withdraw and balance methods. take inputs from the user.

A screenshot of a computer program

AI-generated content may be incorrect.

A screen shot of a computer program

AI-generated content may be incorrect.

CODE EXPLANATION:

This code creates a Bank Account with a holder's name and an initial balance. It then lets you deposit and withdraw money from the account and finally shows you the updated balance.