**Labs Task**

**Lab 1: Python Basics**

**Objective:** Learn Python syntax, variables, and basic input/output.

1. Write a Python program to print "Hello, World!".
2. Declare variables for name, age, and city, then print them.
3. Perform basic arithmetic operations (+, -, \*, /) and print results.
4. Take user input for their name using input() and greet them.

**Lab 2: Working with Strings and Lists**

**Objective:** Understand strings, lists, and basic operations.

1. Store "Python is fun!" in a variable, print it in uppercase and lowercase.
2. Create a list of 5 favorite colors, then print the first and last color.
3. Use slicing to print the first three colors from the list.
4. Add a new color to the list using append() and remove one using remove().

**Lab 3: List Operations and Loops**

**Objective:** Work with list methods and loops.

1. Ask the user for 5 numbers and store them in a list.
2. Find and print the largest and smallest number in the list using max() and min().
3. Use a for loop to print each item in the list.
4. Use a while loop to print numbers from 1 to 10.

**Lab 4: Advanced List Operations**

**Objective:** Work with nested lists and advanced list functions.

1. Create a 3x3 matrix as a nested list and print its elements.
2. Use list comprehension to create a list of squares from 1 to 10.
3. Merge two lists using the + operator and print the result.
4. Write a program to remove duplicates from a list.