**1. Introduction to Python & Interpreter**

✅ *Task:*  
Write a program that prints:

* Your name
* Your university
* Your favorite programming language

**2. Variables and Data Types**

✅ *Task:*  
Create variables for:

* Your name (string)
* Your age (integer)
* Your GPA (float)
* Are you a student? (boolean)  
  Then, print them with proper labels.

**3. Operators**

✅ *Task:*  
Create a calculator program that:

* Takes two numbers from the user
* Performs and prints: addition, subtraction, multiplication, division, and modulus

**4. Control Flow Statements (if-else, match-case)**

✅ *Task 1 (if-else):*  
Write a program that checks if a user’s age is:

* less than 18: print "Minor"
* 18–59: print "Adult"
* 60 or above: print "Senior Citizen"

✅ *Task 2 (match-case):*  
Create a simple menu using match-case:

* 1: Print square of a number
* 2: Print cube of a number
* 3: Print “Goodbye”

**5. Loops (for, while)**

✅ *Task 1 (for loop):*  
Print the multiplication table of any number up to 10.

✅ *Task 2 (while loop):*  
Create a guessing game where the user has to guess a number between 1 and 10. Give hints if the guess is too high or too low.

**6. Lists, Tuples, Sets, and Dictionaries**

✅ *List Task:*  
Ask user to input 5 numbers. Store in a list. Print the list, its sum, max, and average.

✅ *Tuple Task:*  
Store days of the week in a tuple. Print them one by one using a loop.

✅ *Set Task:*  
Take 2 sets of integers and print:

* Union
* Intersection
* Difference

✅ *Dictionary Task:*  
Create a dictionary of 3 students and their marks. Print each student’s name and marks.

**7. Functions and Lambda Functions**

✅ *Task 1:*  
Write a function is\_even(num) that returns True if a number is even.

✅ *Task 2:*  
Write a lambda function to calculate square of a number. Call it on a few values.

✅ *Task 3:*  
Write a function greet(name) that prints a welcome message.

**8. Input/Output (print, input, file handling)**

✅ *Task 1:*  
Take user name and age using input(). Print a message like:  
"Hello Tariq, you are 21 years old."

✅ *Task 2:*  
Write a program that:

* Takes a sentence from the user
* Saves it into a text file mydata.txt
* Then reads it back and displays the content