

BY-PAIR FLOWCHART ACTIVITY

Topic: Flow of a Python Program Using Numeric, Date/Time, and Random Operations

Objective:

Working by pair, design a flowchart that visually explains how a Python program processes numbers, handles dates/time, and generates random values to create a daily report.

Instructions for Each Pair:

1. Form a pair (2 members only).

Assign roles:

- Student A – Numeric operations
- Student B – Date/Time & Random operations

2. Your flowchart must illustrate the steps:

Start

Numeric Data Processing:

- Initialize numeric variables
- Perform type conversions
- Apply math functions

Date & Time Processing:

- Get current date/time
- Format the date
- Add or subtract days

Random Module Usage:

- Generate a random number
- Randomly select an activity

Combine Outputs

Display Final Report

End

3. Flowchart Requirements:

- 10 or more blocks
- Standard flowchart symbols
- Clear labels and arrows
- Clean and readable layout

4. Allowed Tools:

Google Drawings, Lucidchart, Canva, diagrams.net, or neatly hand-drawn.

Submission:

Submit one per pair with both names included.

Grading Criteria (15 pts):

- Completeness of steps: 5
- Accuracy of concepts: 4
- Visual clarity: 3
- Collaboration: 3