Personal Introduction Python Project

1. Project Overview and Objectives

Overview

This project is a beginner-level Python application designed to collect basic personal information from a user and display it in a friendly, formatted manner. The application is designed to help beginners understand Python fundamentals while following professional project and documentation practices.

Objectives

- To understand Python installation and execution

- To practice user input handling using input()

- To store and manage data using variables and lists

- To display structured output using print() and f-strings

- To organize project using proper GitHub structure

2. Setup and Installation Instructions

Prerequisites

- Python 3.x installed on the system

- Git (for version control)

Installation Steps

1. Verify Python Installation

   python --version

2. Install Dependencies

   pip install -r requirements.txt

3. Run the Program

   python personal_intro.py

3. Code Structure Explanation

personal-intro-project/

|—— personal_intro.py

|—— README.md

|—— requirements.txt

|—— screenshot.png

File Descriptions

- personal_intro.py

  Main Python script that handles user input and displays output.

- README.md

  High-level project description and usage instructions.

- requirements.txt

  Lists project dependencies (empty for this project).

- screenshot.png

  Screenshot showing the working output of the application.

4. Screenshots of Working Application

The screenshot below demonstrates successful execution of the program and correct output formatting.

The screenshot includes:

- User input prompts

- Displayed welcome message

- Printed personal details


```
-----Your Bio Data-----
What is your name? Dhanashree Tankar
How old are you? 21
What is your favourite hobby? Coding
Where do you live? Navi Mumbai

🎉 Welcome Dhanashree Tankar! 🎉
Your are 21 years old and love Coding .
You live in Navi Mumbai.
Here is a list of foods:
~ Burger
~ Pasta
~ Ramen
~ Sushi
~ Pizza
Your favourite food is Sushi.

To perform arithemtic operations,
Enter one number:50
Enter another number: 30

Addition: 80
Subtraction: 20
Multiplication: 1500
Division: 1.6666666666666667
```

5. Technical Requirements Fulfillment Explanation

Category	Technical Requirement	How It Was Implemented
Algorithm	Sequential execution	Program executes steps in order from input to output
	User input collection	Used input() to collect name, age, and city
	Loop-based list traversal	Used a for loop to display favorite foods
Data Structure	Variables	Stored user details (name, age, city)
	List	Stored favorite food items
	Strings	Formatted messages using f-strings
Architecture	Program Type	Single-file procedural Python program
	Interaction	Command-line based
	Dependencies	No external libraries or frameworks

Example Code Snippet:

```
name = input("What is your name? ")

age = int(input("How old are you? "))

hobby = input("What is your favourite hobby? ")

city = input("Where do you live? ")
```

This demonstrates:

- Input handling

- Type conversion

- Variable storage

6. Learning Outcomes

Through this project, the following skills were developed:

- Installing and running Python programs

- Understanding command-line interaction

- Writing clean, readable Python code

- Structuring a GitHub project professionally

- Creating technical documentation for submission

7. Conclusion

This project successfully meets all specified technical and documentation requirements. It demonstrates foundational Python programming concepts while adhering to academic and professional GitHub standards.