**Python Tasks – Day6**

1. **Write down 10 projects ideas you want to implement using python**

**Ans:**

1. Rock Paper Scissors Python Game
2. Dice Rolling Simulator in Python
3. Target Practice Game
4. Alarm Clock with GUI
5. Convert Text to Speech in Python
6. YouTube Videos Downloader
7. Python Website Blocker
8. Python Tic Tac Toe Game
9. Calculator in Python
10. Countdown Clock and Timer
11. **Create at list 5 objects using list, dictionary, it will be good if you store realistic data**

**Ans**

1. A list of names of people who work in a company.

employees = ['John', 'Mary', 'David', 'Samantha']

1. A dictionary of people’s names and their ages.

people = {'John': 25, 'Mary': 30, 'David': 35, 'Samantha': 40}

1. A list of dictionaries containing information about people.

People\_info = [{'name': 'John', 'age': 25, 'gender': 'male'},

{'name': 'Mary', 'age': 30, 'gender': 'female'},

{'name': 'David', 'age': 35, 'gender': 'male'},

{'name': 'Samantha', 'age': 40, 'gender': 'female'}]

1. A dictionary of lists containing information about people.

People\_info = {'names': ['John', 'Mary', 'David', 'Samantha'],

'ages': [25, 30, 35, 40],

'genders': ['male', 'female', 'male', 'female']}

1. A list of dictionaries containing information about books.

books = [{'title': 'The Great Gatsby', 'author': 'F. Scott Fitzgerald',

'year\_published': 1925},

{'title': "To Kill a Mockingbird", 'author': "Harper Lee",

'year\_published': 1960},

{'title': "1984", 'author': "George Orwell",

'year\_published': 1949},

{'title': "Pride and Prejudice", 'author': "Jane Austen",

'year\_published': 1813}]

1. **What is duck typing in python, what are Dunder or special methods?**

**Ans:** It means the data types of variables can change as long as the syntax is compatible. dunder methods are methods that allow instances of a class to interact with the built-in functions and operators of the language.

1. **What are operators? How many types of operators are there in python?**

**Ans:** Python, operators are special symbols that designate that some sort of computation should be performed. there are seven different types of operators