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Subject - AI ML Assignment 1.6

1. The ten project ideas I want to implement using python are :-
2. Mad Libs Generator
3. Number Guessing
4. Text-based Adventure Game
5. Dice Rolling Simulator
6. Hangman
7. Contact Book
8. Binary search algorithm
9. Desktop Notifier App
10. Python Story Generator
11. Python Website Blocker

2) # Creating a list of 5 objects

objects = []

# Object 1: Laptop

laptop = {

"Brand": "Apple",

"Model": "MacBook Pro",

"RAM": "16GB",

"Storage": "512GB SSD"

}

objects.append(laptop)

# Object 2: Bicycle

bicycle = {

"Brand": "Giant",

"Type": "Mountain Bike",

"Frame Size": "Medium",

"Color": "Black"

}

objects.append(bicycle)

# Object 3: Book

book = {

"Title": "To Kill a Mockingbird",

"Author": "Harper Lee",

"Genre": "Fiction",

"Publication Year": 1960

}

objects.append(book)

# Object 4: Smartphone

smartphone = {

"Brand": "Samsung",

"Model": "Galaxy S21",

"Color": "Phantom Black",

"Storage": "128GB"

}

objects.append(smartphone)

# Object 5: Car

car = {

"Make": "Toyota",

"Model": "Camry",

"Year": 2022,

"Color": "Silver",

"Fuel Type": "Petrol"

}

objects.append(car)

# Printing the list of objects

for obj in objects:

print(obj)

3)Duck typing in Python means that the data type of the variables can change as long as the syntax is valid. In Python, dunder methods are methods that allow instances of a class to interact with the built-in functions and operators of the language.

4)Operators are the constructs which can manipulate the value of operands. These are symbols used for the purpose of logical, arithmetic and various other operations. In Python, there are seven different types of operators: arithmetic operators, assignment operators, comparison operators, logical operators, identity operators, membership operators, and boolean operators.