DS Programming Questions.pdf

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	DS Programming Questions		
Day	Questions	Understood	Imple
	Write a Python program to calculate the factorial of a number.		
	Implement a Python program to find the sum of even numbers in a list.		
1 Intro to Programming	Create a Python function to reverse a given string.		
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	Develop a Python program to solve a basic math problem, e.g., finding the area of a rectangle.		
ļ	Write a Python program to convert temperature from Fahrenheit to Celsius.		
	Implement a program to calculate the area of a circle.		
2 Variables, Data Types	Create a Python function to check if a given number is even or odd.		_
	Write a program to find the square root of a number.		_
	Develop a Python program to calculate the simple interest.		-
	Write a Python program to check if a year is a leap year.		
1	Implement a program to find the maximum of three numbers.		
	Create a Python function to calculate the sum of natural numbers up to N.		
3 Control Flow	Write a program to print the Fibonacci sequence up to N terms.		
İ	Develop a Python program to check if a number is a palindrome.		
	Write a Python program to count the number of vowels in a string.		
	Implement a program to find the intersection of two lists.		
4 Collections	Create a Python function to reverse a given list.		
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ļ	Implement a Python program to calculate the power of a number using a recursive function.		_
ļ	Write a program to find the LCM of two numbers using a function.		_
5 Functions	Create a Python function to generate a random password of a given length.	ļ	_
ļ	Write a program to find the GCD of two numbers using a function.	ļ	_
	Develop a Python program to check if a string is a palindrome using a function.		_
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1	Implement a Python program to calculate the exponential of a number using a user-defined function. Write a program to find the mean and median of a list of numbers using functions.	-	-
	Write a program to find the mean and median of a list of numbers using functions. Create a Python function to check if a given string is a valid palindrome (ignoring spaces and punctuation).		
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	Write a Python program to demonstrate the scope of variables in different functions.		
ľ	Implement a program to calculate the sum of natural numbers using recursion.		
	Create a recursive function to find the factorial of a number.		
7 Scope of Variables and Recursion	Write a program to solve the Tower of Hanoi puzzle using recursion.		
	5. Develop a Python program to compute the nth Fibonacci number using recursion.		
	 Implement a Python class representing a simple bank account with deposit and withdrawal methods. 		
	Write a Python program to create an instance of a car object with attributes like make, model, and year.		
8 Object-Oriented Programming	Create a Python class for a basic calculator that can add, subtract, multiply, and divide.		
(OOP) Basics	Write a program to create a Python class representing a book with attributes like title and author.		
	Develop a Python program to demonstrate the concept of encapsulation using a class.		_
	Implement a Python class representing a student with a constructor and methods for setting and getting		
	student details.		
9 OOP Concepts (Constructors,	Write a Python program to create a class diagram for a simple online shopping system.		_
Class)	Create a Python class for a basic shape with constructor and methods to calculate area and perimeter.		-
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	Write a Python program that demonstrates the use of multiple except blocks for different types of exceptions.		
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ļ	I. Implement a Python class representing a basic stack ADT with push, pop, and peek methods.	-	_
ļ	Write a program that defines an ADT for a queue and implements it using a list in Python.		_
12 Abstract Data Types (ADT)	Create a Python class for a basic linked list ADT with methods to insert, delete, and traverse the list.		-
'	Develop a program that demonstrates the use of a Python list as an array ADT. Implement a Python ADT for a set, including methods for union, intersection, and difference.	-	-
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ŀ	Implement a basic Python class for a singly linked list and add methods for insertion and deletion. Create a program to perform arithmetic operations on polynomials using arrays.		_
13 Introduction to Data Structures	Develop a Python class representing a doubly linked list with methods for insertion and deletion.		_
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14 Otdoro	Develop a program that simulates a browser's forward and backward navigation using two stacks.	
	Implement a Python program to reverse a string using a stack.	
	Write a Python program to implement a queue using two stacks.	
	Implement a program to simulate a printing queue with priority.	
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15 Queues	Develop a program that simulates a supermarket queue with customers entering and leaving.	
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	Write a program to find the height of a binary tree.	
16 Binary Trees	Create a Python function to check if a binary tree is a binary search tree.	
To billary Trees	 Develop a program that performs a level-order traversal of a binary tree. 	
	Implement a Python program to find the lowest common ancestor of two nodes in a binary tree.	
	Write a Python program to create a binary search tree from a sorted list of values.	
	Implement a program that checks if a binary tree is balanced.	
17 Binary Trees (Continued)	Create a Python function to serialize and deserialize a binary tree.	
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	Write a Python program to find the diameter of a binary tree.	
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19 Hash Tables	Create a Python function to hash a string and store it in a hash table.	
19 Hash Tables	Develop a program that searches for a key in a hash table and returns the corresponding value.	
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Page 1 / 2	rithm to find an element in a list.	
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