

Mini Project- 1

(Python Development)

Questions on Python Programming :

1. Write a program to print the given number is odd or even.
2. Write a program to find the given number is positive or negative.
3. Write a program to find the sum of two numbers
4. Write a program to find if the given number is prime or not.
5. Write a program to check if the given number is palindrome or not.
6. Write a program to check if the given number is Armstrong or not.
7. Write a program to check if the given strings are anagram or not.
8. Write a program to find a maximum of two numbers.
9. Write a program to find a minimum of two numbers.
10. Write a program to find a maximum of three numbers.

Questions on NumPy :

1. How do you find the indices of the maximum value in a NumPy array?
2. How do you find the indices of the minimum value in a NumPy array?
3. How do you create a NumPy array with a specified data type?
4. In NumPy, how do I change the data type of an array?
5. How to add matrices using NumPy?
6. How to multiply matrices using NumPy?
7. How to find the transpose of the matrix using NumPy?
8. What is array slicing and how do you do it in NumPy?
9. Create array by using `arrange()` function?
10. How do you split a NumPy array into multiple sub-arrays?

Questions on Pandas :

You can get dataset from (<https://www.kaggle.com/datasets/johnsmith88/heart-disease-dataset>)

1. Find the shape of the Dataset
2. Display Top 5 Rows of The Dataset
3. Check The Last 5 Rows of The Dataset
4. Find Shape of Our Dataset (Number of Rows And Number of Columns)
5. Get Information About Our Dataset Like Total Number Rows, Total Number of Columns, Datatypes of Each Column And Memory Requirement
6. Check Null Values In The Dataset
7. Check For Duplicate Data and Drop Them
8. Get Overall Statistics About The Dataset
9. Find Count of Male & Female in this Dataset.
10. How Many People Have Heart Disease, And How Many Don't Have Heart Disease In This Dataset?

Hint : if target column has 1 then People Have Heart

Disease and it is 0 then Don't Have Heart Disease