

# **CODE TANTRA LAB ASSIGNMENTS**

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**Division: CS7**

**PRN: 202401080010**

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## 1. Practical 1

1.1. Practice Lab Assignment

1.2. Lab Assignment

## 2. Practical 2

## 3. Practical 3

## 4. Practical 4

4.1. Practice Lab Assignment

4.2. Lab Assignment

4.2.1. Month with the Highest Total Sales

4.2.2. Best Selling Product

4.2.3. City that Sold the Most Products

4.2.4. Most Frequently Sold Product Pairs

4.2.5. Titanic Dataset Analysis and Data Cl...

4.2.6. Titanic Dataset Analysis and Data Cl...

## Practical 1

## About this unit

Practical 1

## Practice Lab Assignment

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## Lab Assignment

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## 1. Practical 1

1.1. Practice Lab Assignment

1.1.1. Calculate Momentum

1.1.2. Conditional Calculation Based on th...

1.1.3. Age and Salary Calculation

1.1.4. Reverse a Number

1.1.5. Multiplication Table

1.2. Lab Assignment

## 2. Practical 2

## 3. Practical 3

## 4. Practical 4

4.1. Practice Lab Assignment

4.2. Lab Assignment

4.2.1. Month with the Highest Total Sales

## Practice Lab Assignment

## About this unit

Practice Lab Assignment

## Calculate Momentum

Question

## Conditional Calculation Based on the Number of Digits

Question

## Age and Salary Calculation

Question

## Reverse a Number

Question

## Multiplication Table

Question

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1. PRACTISE 1

1.1 Practice Lab Assignment

1.1.1 Calculate Momentum

1.1.2 Conditional Calculation Based on th...

1.1.3 Age and Salary Calculation

1.1.4 Reverse a Number

1.1.5 Multiplication Table

1.2 Lab Assignment

1.2.1 Pass or Fail

1.2.2 Fibonacci series using Recursive Fu...

1.2.3 Pattern - 1

1.2.4 Pattern - 2

2. Practical 2

3. Practical 3

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## Lab Assignment

## About this unit

Lab Assignment

Pass or Fail

Question

Fibonacci series using Recursive Function

Question

Pattern - 1

Question

Pattern - 2

Question

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1.1.5 Multiplication Table

1.2 Lab Assignment

1.2.1 Pass or Fail

1.2.2 Fibonacci series using Recursive Fu...

1.2.3 Pattern - 1

1.2.4 Pattern - 2

2. Practical 2

2.1 Practice Lab Assignment

2.2 Lab Assignment

3. Practical 3

4. Practical 4

4.1 Practice Lab Assignment

4.2 Lab Assignment

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## Practical 2

## About this unit

Practical 2

Practice Lab Assignment

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Lab Assignment

Unit - 100% completed



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2.1. Practice Lab Assignment

2.1.1 List operations

2.1.2 Dictionary Operations

2.2 Lab Assignment

2.2.1 Linear search Technique

2.2.2 Captain of the Team

3 Practical 3

3.1 Practice Lab Assignment

3.2 Lab Assignment

4 Practical 4

4.1 Practice Lab Assignment

4.2 Lab Assignment

4.2.1 Month with the Highest Total Sales

Practical 3

About this unit  
Practical 3

Practice Lab Assignment

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Lab Assignment

Unit - 100% completed

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2.1.1 List operations

2.1.2 Dictionary Operations

2.2 Lab Assignment

2.2.1 Linear search Technique

2.2.2 Captain of the Team

3 Practical 3

3.1 Practice Lab Assignment

3.1.1 Numpy array operations

3.2 Lab Assignment

4 Practical 4

4.1 Practice Lab Assignment

4.2 Lab Assignment

4.2.1 Month with the Highest Total Sales

Practice Lab Assignment

About this unit  
Practice Lab Assignment

Numpy array operations

Question

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2.2 Lab Assignment

2.2.1 Linear search Technique

2.2.2 Captain of the Team

3. Practical 3

3.1 Practice Lab Assignment

3.1.1 Numpy array operations

3.2 Lab Assignment

3.2.1 Numpy: Matrix Operations

3.2.2 Numpy: Horizontal and Vertical Stac...

3.2.3 Numpy: Custom Sequence Generation

3.2.4 Numpy: Arithmetic and Statistical Op...

3.2.5 Numpy: Copying and Viewing Arrays

3.2.6 Numpy: Searching, Sorting, Countin...

3.2.7 Student Data Analysis and Operations

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## Lab Assignment

## About this unit

Lab Assignment

Numpy: Matrix Operations

Question

Numpy: Horizontal and Vertical Stacking of Arrays

Question

Numpy: Custom Sequence Generation

Question

Numpy: Arithmetic and Statistical Operations, Mathematical Operations, Bitwise Operators

Question

Numpy: Copying and Viewing Arrays

Question

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3.1.1 Numpy array operations

3.2 Lab Assignment

3.2.1 Numpy: Matrix Operations

3.2.2 Numpy: Horizontal and Vertical Stac...

3.2.3 Numpy: Custom Sequence Generation

3.2.4 Numpy: Arithmetic and Statistical Op...

3.2.5 Numpy: Copying and Viewing Arrays

3.2.6 Numpy: Searching, Sorting, Countin...

3.2.7 Student Data Analysis and Operations

4. Practical 4

4.1 Practice Lab Assignment

4.2 Lab Assignment

4.2.1 Month with the Highest Total Sales

4.2.2 Best Selling Product

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## Practical 4

## About this unit

Practical 4

Practice Lab Assignment

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Lab Assignment

Unit - 100% completed

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3.2.2. Numpy: Multivariate and Vectorial Data...  
3.2.3. Numpy: Custom Sequence Generation  
3.2.4. Numpy: Arithmetic and Statistical Op...  
3.2.5. Numpy: Copying and Viewing Arrays  
3.2.6. Numpy: Searching, Sorting, Countin...  
3.2.7. Student Data Analysis and Operations

4. Practical 4

4.1. Practice Lab Assignment

4.1.1. Pandas - series creation and manipu...  
4.1.2. Dictionary to dataframe  
4.1.3. Student Information

4.2. Lab Assignment

4.2.1. Month with the Highest Total Sales  
4.2.2. Best Selling Product

4.2.3. City that Sold the Most Products

## Practice Lab Assignment

About this unit

Practice Lab Assignment

Pandas - series creation and manipulation  
Question

Dictionary to dataframe  
Question

Student Information  
Question

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3.2.2. Numpy: Multivariate and Vectorial Data...  
3.2.3. Numpy: Custom Sequence Generation  
3.2.4. Numpy: Arithmetic and Statistical Op...  
3.2.5. Numpy: Copying and Viewing Arrays  
3.2.6. Numpy: Searching, Sorting, Countin...  
3.2.7. Student Data Analysis and Operations

4. Practical 4

4.1. Practice Lab Assignment

4.1.1. Pandas - series creation and manipu...  
4.1.2. Dictionary to dataframe  
4.1.3. Student Information

4.2. Lab Assignment

4.2.1. Month with the Highest Total Sales  
4.2.2. Best Selling Product

4.2.3. City that Sold the Most Products

## Lab Assignment

About this unit

Lab Assignment

Month with the Highest Total Sales  
Question

Best Selling Product  
Question

City that Sold the Most Products  
Question

Most Frequently Sold Product Pairs  
Question

Titanic Dataset Analysis and Data Cleaning  
Question

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- </> 4.2.7. Titanic Dataset Analysis and Data Ci...
- </> 4.2.8. Titanic Dataset Analysis and Data Ci...

## 5. Practical 5

## 5.1. Practice Lab Assignment

## 5.1.1. Stacked Plot

## 5.2. Lab Assignment

## 5.2.1. Titanic Dataset

## 5.2.2. Histogram of passenger information ...

## 5.2.3. Bar plot of survival rate of passengers

## 5.2.4. Bar Plot for Survival by Gender

## 5.2.5. Bar Plot for Survival by Pclass

## 5.2.6. Bar Plot for Survival by Embarked

## 5.2.7. Box plot for Age Distribution

## Lab Assignment

## About this unit

## Lab Assignment

## &lt;/&gt; Titanic Dataset

Question

## &lt;/&gt; Histogram of passenger information of Titanic

Question

## &lt;/&gt; Bar plot of survival rate of passengers

Question

## &lt;/&gt; Bar Plot for Survival by Gender

Question

## &lt;/&gt; Bar Plot for Survival by Pclass

Question