HIMACHAL PRADESH UNIVERSITY, SUMMER HILL, SHIMLA INTERNATIONAL CENTRE FOR DISTANCE EDUCATION AND OPEN LEARNING (COMPUTER SCIENCE DEPARTMENT)

ASSIGNMENT No:

Course:	Semester:
Name of Student:	Roll No:
Paper Code:	Paper Title:
Theory/Lab:	Date of Submission:
Session:	Batch:

Signature of Student

International Centre for Distance Education and Open Learning Himachal Pradesh University, Shimla

Assignment

DDS 2nd Semester Subject: DDS-201 Statistics for Data Science

- 1. Define the terms Data classification and Tabulation.
- 2. How do we measure Central Tendency and Variance?
- 3. What are Quartiles and percentiles?
- 4. What is Karl Pearson's Correlation coefficient?
- 5. Discuss about Correlation Coefficient for Bivariate Frequency Distribution .
- 6. What is Baye's theorem? What is it used for?
- 7. What is probability distribution function. Explain in detail.
- 8. Discuss about central limit theorem.

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Assignment

DDS 2nd Semester Subject: DDS-202 Data Warehousing and Mining

- 1. Describe architecture of a typical data ware house.
- 2. Differentiate between ROLAP, MOLAP and HOLAP.
- 3. What do you mean by ER based conceptual design?
- 4. What are various steps in data cleaning?
- 5. What do you mean by Metadata? How is it useful?
- 6. Describe star schema in detail.
- 7. What do you mean by Data Mining? Explain in brief.
- 8. What is clustering? How is it useful?

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Assignment

DDS 2nd Semester Subject: DDS-203 Python for Data Analytics

- 1. Describe about various Data Types in Python.
- 2. What are Dictionaries in Python? What is their use?
- 3. What is inheritance? How many types of inheritance is supported by Python?
- 4. What are Pandas in Python. Give a short explanation.
- 5. Briefly discuss about various visualization tools in Python.
- 6. What are binary files?

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Assignment

DDS 2nd Semester Subject: DDS-204 R for Data Analytics

- 1. Define Data types. What are various data types in R language?
- 2. What are vectors in R? Explain their use with examples.
- 3. What are Lists in R? How are they different for Vectors? Explain with exampls.
- 4. Discuss about operators in R.
- 5. Discuss about decision control structures in R.
- 6. Briefly explain about Arrays in R
- 7. What are R packages? What are they used for?
- 8. Why is R called a statistics programming language
- 9. List important features of R.
- 10. What are strings in R? How are they manipulated?

Dr. Sandeep Kumar,

Assistant Professor (Computer Science)

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Assignment

DDS 2nd Semester Subject: DDS-251 Python for Data Analytics Lab-III

- 1. Write a program to swap two numbers.
- 2. Write a Program to perform basic calculator operations.
- 3. Write a Program to illustrate common string operations in python.
- 4. Write a Program to print prime numbers.
- 5. Write a Program by using Tuple in Python.
- 6. Write a Program to explain different types of loop control statements.
- 7. Write a Program to show use of five dictionary functions.

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Assignment

DDS 2nd Semester Subject: DDS-252 R for Data Analytics Lab-IV

- 1. Write a program for Matrix manipulations
- 2. Write a program for Creating and manipulating a List and an Array
- 3. Write a program for Merging two Data Frames
- 4. Write a program for concatenating two strings.
- 5. Write briefly about Histograms and Density Charts
- 6. Write a program for performing Simple Linear Regression.