



Ministry of Information  
Technology & Telecom  
Government of Pakistan



**Hands-on Exercise No. 4**  
**DigiSkills 2.0 Batch-05**  
**Data Analytics and Business Intelligence**

**Total Marks: 10**  
**Due Date: 14/09/2023**

**Instructions:**

Please read the following instructions carefully before submitting this Hands-on Exercise:

- Use MS Word to prepare exercise solution.
- You may consult tutorials and videos if the concept is not clear.
- Your submitted exercise will not be considered/counted if:
  - It is submitted after due date.
  - It is not in the required format (.doc or .docx)
  - It does not open, or file is corrupt.
  - It is copied (partial or full) from any source (websites, forums, students, etc.)

**Learning Outcome:**

After completing this exercise, you shall be able to:

- Download and install free R language.
- Perform Descriptive Analysis for Iris dataset.
- Create BoxPlot and Pairs chart for Iris dataset.

### **Problem Statement:**

R language is used to explore and visualize the iris dataset. The Iris dataset is built-in dataset. That is already available in R language. It is a collection of measurements of 50 flowers from 3 different species of Iris.

### **Tasks:**

- 1) Download and Install free R language from the following link. (Provide screenshot)  
<https://cran.r-project.org/bin/windows/base/>
- 2) Create view and summary for iris dataset using the following command. (Provide screenshot)
  - View(iris)
  - summary(iris)
- 3) Compute the mean of the sepal length and the sepal Width in the data set iris using following command. (Answer in words)

mean(iris\$Sepal.Length)	
mean(iris\$Sepal.Width)	

- 4) Create BoxPlot for iris dataset using the following command. (Provide screenshot)
  - boxplot(iris)
- 5) Create Pairs for iris dataset using the following command. (Take a screenshot)
  - pairs(iris)

### **Requirements:**

In this exercise you are required to perform all the given tasks and provide

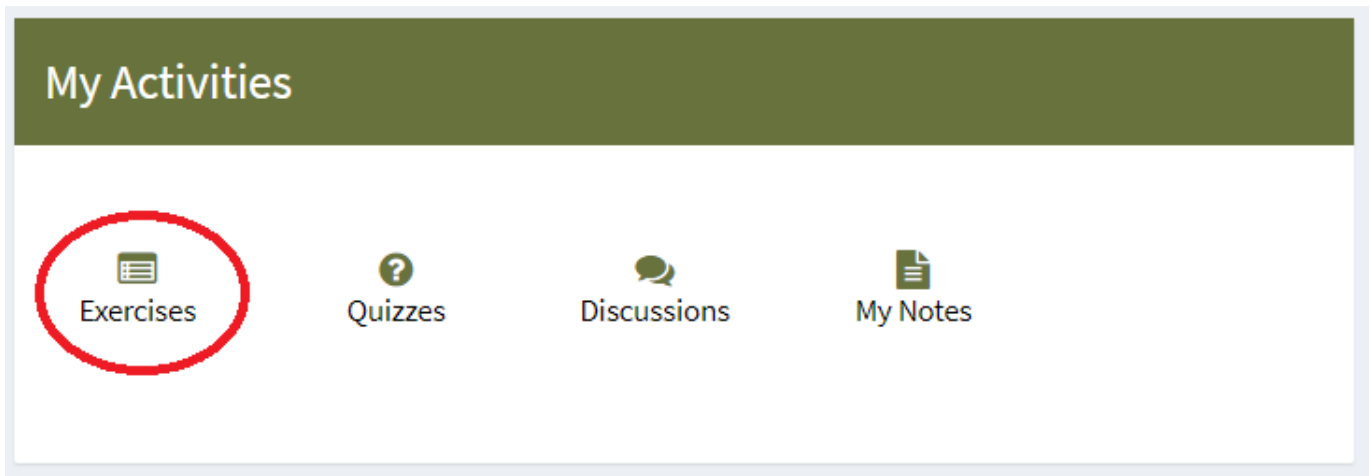
- Screenshots of Task 1, 2, 4,5.
- Written answers of Task 3.
- Submit the completed tasks in word document.

BEST OF LUCK ☺

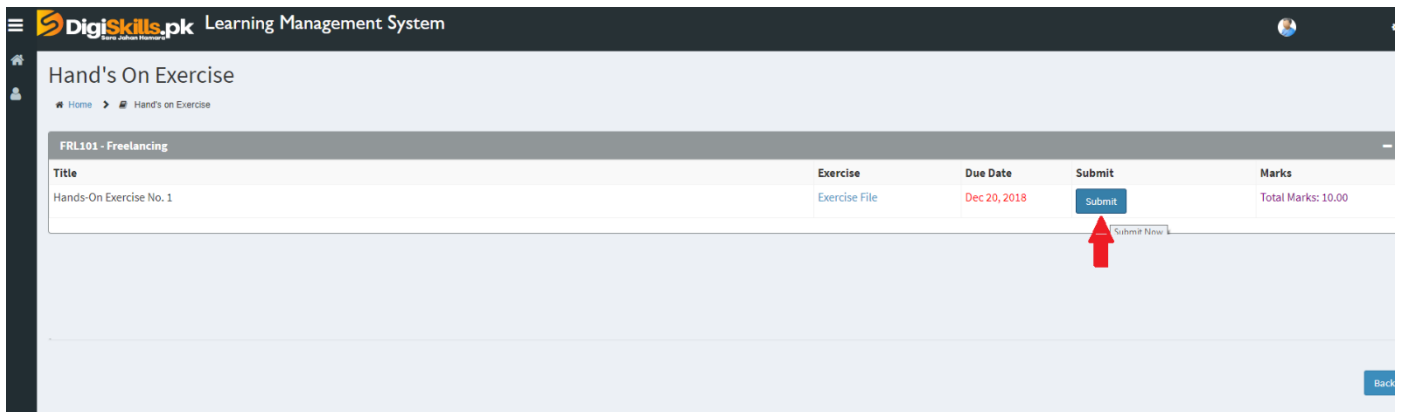
## How to submit solution file on LMS?

Please perform the following steps for submitting your solution using LMS:

- 1) Login to the LMS
- 2) Click on the **Exercises** button within the **My Activities** section



- 3) Click on the submit button to upload your Solution.



- 4) Keep in mind to upload your Solution in .doc or .docx format