**PRACTICAL 3**

| Write a R program to create a matrix(4\*4) contains 1:16 numbers.   1. Display an element from 2nd row,3rd column. 2. Display an element from 4th row,2nd column. 3. Print all the elements of the 1st row. 4. Print all the elements of the 3rd column.   Solution: |
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Write a R program to convert a matrix to a 1 dimensional array ((i)By Column, (ii)By row).

| Solution: |
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Write a R program to concatenate two given matrices of same column but different rows

| Solution: |
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Write a R program to list containing a vector, a matrix and a list and give names to the elements in the list.

| Solution: |
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Write a R program to merge two given lists into one list.

| Solution: |
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Write a R program to count the number of objects in a given list. Display the 1st,4th and 5th objects of a list. (Note: List should contain at least 5 objects)

| Solution: |
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Write a R program to assign new names "One", "Two" and "Three" to the elements of a given list.

| Solution: |
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Write a R program to create list P=(Vector, String, String). Append a new vector as the 4th object in list P.

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Write a R program to add 10 to each element of the first vector in a generated list P from (8).

Solution:

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Create a dataframe “Emp\_Details'' with fields (Emp\_No, Emp\_Name, Emp\_age, Emp\_Department). Insert details of 5 employees and display the data frame.

Solution:

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Write a program to perform following operations of “Emp\_Details” dataframe :

1. Update field “Emp\_Department” for 2nd and 4th Employees.
2. Insert a field “Emp\_Gender” into the dataframe.
3. Display Name of all the employees.
4. Append details of 2 new employees in the dataframe.
5. Create a dataframe of employees whose age is greater than 40 as “Senior\_Emp\_Details” from “Emp\_details”. (Hint : use subset function).

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Make the field “Emp\_Gender” of the “Emp\_name” data frame as a factor and display the content of the “Emp\_Gender field.

1. Print the number of levels for the “Emp\_Gender” field.
2. Display the levels of the “Emp\_Gender” field.

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13. Create a Matrix of 4 rows and 3 columns. Convert this matrix into a dataframe.(Use as.data.frame() function)

| Solution: |
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