**Learning Activity 4 – Data Frames and Lists**

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| Activity | * Create the following data frame.

 Name Age Weight Sex1 John 15 49 M2 Mary 20 71 F3 Peter 17 58 M4 William 19 62 M5 Kate 25 67 F* Display the internal structure of the data frame.
* Save the above script as **Activity 2\_5\_5**
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| Activity | * This activity follows from the previous one.
* From the data frame, extract the age and the weight.
* Extract the name and the sex and save the result in another data frame
* Display this new data frame.
* Save the updated script as **Activity 2\_5\_5\_2**
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| Activity | * This activity follows from the previous one.
* The Height column was missed in the previous data frame and is as follows:

Height175155182167165* Add this information column-wise to the previous one.
* Display this new data frame.
* How many rows and columns does the new data frame have?
* Investigate on how can the above information be obtained by using dim().
* Save the above script as **Activity 2\_5\_5\_3**
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| Activity | * This activity follows from the previous one.
* Create another data frame with the following information:

 Name Age Weight Sex Height1 Micheal 22 82 M 1852 Janet 17 44 F 1693 Samy 33 52 F 157* Add this data frame to the previous data frame and display the updated data frame.
* Create a data frame of only the rows 2, 5, 7 and 8 and with only the columns Name, Sex, Height.
* The Height of Kate has been wrongly inserted. It should have been 170. Change it in the new data frame
* Display the new data frame to see the changed record.
* Save the updated script as **Activity 2\_5\_5\_3**
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| Activity | * Create a list Date such that it contains the following information. You may consider creating 3 appropriate vectors.

$year [1] 81 82 83 84 85 86 87 88 89 90$month [1] 1 2 3 4 5 6 7 8 9 10 11 12$day [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15[16] 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30[31] 31* Replace the values of year element in Date list with the years 00 till 10 (2000 – 2010)
* Delete the value 2 of the month component of the list Date.
* Save the updated script as **Activity 2\_5\_6\_3**
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