Answer each for the following two questions using a separate script for each question. Then print the script and the output and turn in your solutions to both question s. You should bind both answers together by stapling them or using a suitable clip. The due date can be found on the syllabus.

## Q1.

The table below contains data concerning my grandchildren. It gives the child’s name and the age if the child in years.

|  |  |  |
| --- | --- | --- |
| child | gender | months |
| Peyton | F | 54 |
| Ella | F | 34 |
| Lizzy | F | 30 |
| Andrew | M | 28 |
| Ryan | M | 6 |
| Rachael | F | 5 |

### Q1.1. Creating vectors

.Create three vectors name **child**, **gender**, and **age** in moths. Populate the vectors with appropriate data. Then print the value of the vectors.

Q1.2. Converting the months a “years” vector

Divide the age in months by 12 to give the age of the child in years. Save the result in an R-variable names **years**. Print the contents of this variable.

### Q1.3. Creating a data-frame

Create a data-frame object that contains the vectors child, gender, and months.

### Q1.4. Cleaning the environment

Remove all variables except the data-frame. Use the ”ls()” function to demonstrate that you have successfully removed the variables.

Q1.5 Computing the mean age using **$**-notation and the R-function **with()**.

# Q2. KBS Revenue

The Microsoft Excel spreadsheet contains data about the monthly revenue paid by Aston Hotels and Condos to an owner of the Condo. You can find the spreadsheet on the Github account utaSlinkman.

## Q2.1. Downloading the account.

Download the spreadsheet and prepare it to read by R.

### Q2.2. Import the spreadsheet data into R

Read the data into an R object named **KBS**. Then use the R-function **head()** to list the first 6 rows of the data-frame.

### Q2.3. Draw a histogram of the KBS Revenue variable

. Draw a histogram of the KBS Revenue variable. The function you should use is **hist( X )** where X is the name of the variable that is going be used for the histogram. You will need to copy this with a snip-it type program.

### Q2.4. Compute the mean revenue

Use R to compute the mean KBS revenue.

### Q2.5 Compute the mean standard deviation

Use R to compute the standard deviation of the KBS revenue. The R-function sd( X ) will compute the standard deviation of the variable X.