CS1101 Worksheet05
Group C / Thursday / 13.09.2018

Login to the system. Open a terminal. Create a directory called **Worksheet05** under your home directory. Change to that directory and do all your work there. In particular open a file called **Worksheet05.txt** (using **gedit**) inside this directory where you will write down the answers to all questions asked in this worksheet. At the end of the class, archive the directory **Worksheet05** and upload to WeLearn.

Warning: Please strictly adhere to the instructions above – not doing so may affect your grades!

Q 1) Exploring lists

(a) Type python to start a python shell
(b) Create a list of integers from 0 to 12 and store the list in variable x
(c) Create a list of integers from 8 to 20 and store the list in variable y
(d) Using a single print command print the list in x in reverse
(e) Using a single print command print the list of odd entries in x and then the list of even entries in x
(f) Check whether the last item of x is same as the fifth item of y
(g) Check whether the number 8 is in the list x
(h) Check whether the number 21 is in the list y
(i) Get a combined list (added) of the items of x and y
(j) Save the gedit contents as prob-1.txt

Q 2) Strings are lists

(a) Store a string ”Mary had her little lamb” in a variable x
(b) Check whether the word little is in this sentence
(c) Print the sentence in reverse order
(d) Print every fourth character of the above sentence
(e) Find how many characters are there in the sentence (including spaces)
(f) Print every second character of the sentence starting from the last character in reverse order

(g) Store the first four character of x in a variable y and the last four characters in a variable z.

(h) Check the output of y*5

Q 3) Numbers

(a) Store 1.5 in a variable x
(b) Store 15 in a variable y
(c) Store 30 in a variable z
(d) Check the output of x/y, y/z and z/x. Are all of them float?
(e) Get the ratio of y and z in float
(f) Check whether 100 is same as 100.0.
(g) Find 7th power of 3
(h) Check whether $(3.0)^3$ is equal to $(3)^3$
(i) Compare outputs of y+z and str(y)+str(z)

Close python shell

Go back to your Home directory

Create an archive of today's work directory Worksheet05 and upload it in WeLearn