







e-Yantra MOOC: Software Foundation (Part I)

Week 1: Assignment 2 **Match the Pattern with Shell Scripting**

[Last Updated on: **08th March 2021**, **16:00 Hrs**]

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Aim

In this assignment, you will be find and match the pattern in a given file with Shell (.sh) scripting. You will be using few shell commands to work with input arguments in a shell file.

The program is ideally expected to print complete row details of CSV file (provided as input argument), only if the first column data begins with letter "R" and alphabetically sort it based on the first column data.

Given

Two files are provided to solve this assigment.

- Skeleton program file: assignment2.sh
- Sample CSV file: assignment2_sample.csv

Procedure

- Open the skeleton program file, assignment2.sh.
- You will notice pre-written comments included in skeleton program for your assistance to solve the assignment.
- To run and debug your solution, type the below command in Terminal:
 - \$ bash assignment2.sh assignment2_sample.csv



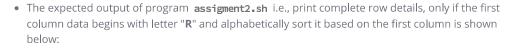
This command will run the shell script assignment2.sh with the input argument of provided CSV file.

• Refer the **Expected Output** section below and debug your code to get the correct output.

Expected Output

- The provided sample CSV file, assignment2_sample.csv consists data with fields: First Name, Last Name, Gender and email ID.
- For example, consider the rows 21-40 from this CSV file as shown below:

Gerry, Thebeau, Female, gthebeauj@shop-pro.jp Row, Penhaligon, Female, rpenhaligonk@bbc.co.uk Juliet,Tall,Female,jtalll@bbb.org Axe, Angear, Male, aangearm@cyberchimps.com Josefina, Keeffe, Female, jkeeffen@flickr.com Osbourne, Village, Male, ovillageo@istockphoto.com Shay, Ert, Female, sertp@hud.gov Regen, Stace, Male, rstaceq@businessinsider.com Kennedy, Martine, Male, kmartiner@slate.com Kyle, Backe, Male, kbackes@livejournal.com Jeanette, Muzzillo, Female, jmuzzillot@desdev.cn Job,Andrey,Male,jandreyu@ca.gov Bernie, Brolechan, Male, bbrolechanv@icq.com Gonzalo, Poynser, Male, gpoynserw@furl.net Templeton, Bradane, Male, tbradanex@ft.com Kippy,Gavini,Female,kgaviniy@toplist.cz Simeon, Dearle, Male, sdearlez@dailymail.co.uk Robb, Langfitt, Male, rlangfitt10@gmpg.org Anette, Pitchford, Female, apitchford11@meetup.com Maison, Crady, Male, mcrady12@npr.org



Regen,Stace,Male,rstaceq@businessinsider.com Robb,Langfitt,Male,rlangfitt10@gmpg.org Row,Penhaligon,Female,rpenhaligonk@bbc.co.uk



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Grading and Submission Instructions

- Navigate to the folder where the **ey-mooc-grader-sfc** application resides.
- To grade your solution, run the **check** command of the application as follows:
 - \$./ey-mooc-grader-sfc check -w 1 -a 2 Week_1/Assignment_2/assignment2.sh
- This will run your program assignment2.sh against random test cases and grade it. Marks and appropriate remarks will be provided as shown in Figure 1.
- Your program file assignment2.sh, marks scored and remarks will get uploaded to the MOOC portal.



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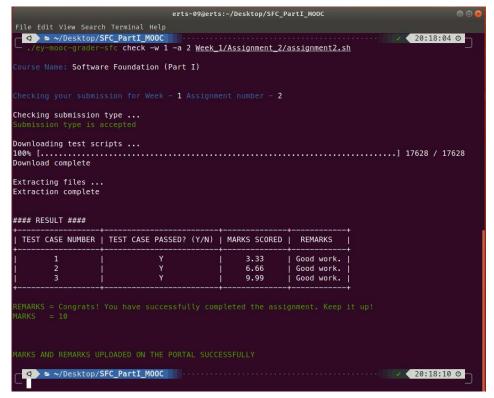


Figure 1: Output of running check command for Week 1 Assignment 2

 You can verify this by running the status command of the application as given below, refer Figure 2.

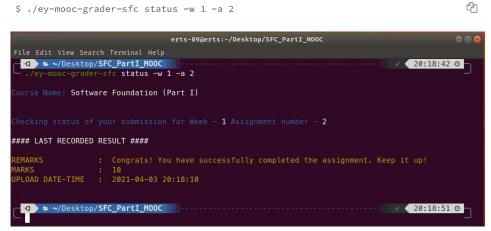


Figure 2: Output of running status command for Week 1 Assignment 2

References

- Nano Editor
 - How to use Nano Text Editor
 - Nano Editor Official Docs
- Vim Editor
 - Interactive Vim Tutorial
- Passing arguments to Bash script
 - Bash Scripting Tutorial

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- Sort command
 - Man Page of Sort with examples
- Grep command
 - Man Page of Grep with examples
 - Grep to find text in Files
 - Examples of Grep Command

All The Best!

https://www.mooc.e-yantra.org/mdbook/course_2/week_1/w1_a2_readme.html