DAC – COS and SDM – Lab Exam – Sep 2023 – Set 1

Duration: 2 Hours, Marks: 30

Instructions

There are **two** questions in the question paper. You need to solve both.

Question 1 carries 10 marks. Question 2 carries 20 marks.

For both the questions, submit code (.java file, Dockerfile as appropriate) and/or screenshot of the each step of the output, as appropriate.

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Q.1

(1) Use Linux Shell Script for this. Accept two strings from the user. If the two strings match, print ‘The two strings match’, else print ‘The two strings do not match’.

=> 3 marks for fully working answer. 0.5-1 marks for each step (Accept input, Compare, If, Else)

(2) Create a file ‘cdac.txt’ and write 5 lines in it as follows:

Bash scripting lets you automate repetitive tasks

Bash scripting is incredibly versatile

Fascinating world of Bash scripting

Now count the number of lines containing the word Bash using a command.

=> File creation: 2 marks

(3) Rename a file "cdac.jsp" to "dac.jsp"

=> 2 marks

(4) Find a process running with PID "2391"

=> 3 marks

Q.2

(a) Create a Java program that initializes three integers to some values and displays the sum of the largest of the three numbers. Compile and execute it.

Create a Docker container of the final version of the above code and execute it. Your screenshots should include all the steps related to your Docker work and also attach your Dockerfile.

=> Java program and its output: 3 marks, Dockerfile: 6 marks, Docker execution: 6 marks

(b)

1. Create a new Test project with require dependencies (Select Simple Maven Project)
2. Write Selenium script to automate the “Amazon Search Scenario”
    a. Navigate to amazon.in
    b. Enter a product
    c. Click on search button
    d. Verify the title of result page
3. Create a new Maven project in Jenkins -> Set Root POM as above project’s POM.xml
4. Execute the Jenkins job with Goal: clean Test

Post your Jenkins console output and test.java file as final result.

⇨ 5 marks