FOSS-LAB-SET-2

1. Write a bash script to find the binary equivalent of a given number.

   Input : 8
   Output : 1000

   Input : 23
   Output : 10111

   (Input must be taken from the user)

2. Given a file containing the marks obtained by students for 3 subjects in an exam. In order to pass, student should score at least 50 marks in every subject. The file has one record(line) for each student in the following format:
   roll_number subject1 subject2 subject3
   A sample line from the file will be like :

   TVE14CS021 88 49 69

   This means the student with roll number 'TVE14CS021' has scored 88 marks for first subject, 49 for second subject, and 69 for third subject. The student has failed since marks for second subject is 49, less than 50.

   Using **a scripting language**, print pass/fail status of each student in the following format:

   roll_number pass/fail

   The output line corresponding to the above sample line will be :
   TVE14CS021 fail

   (Test case Available in Folder '2')

3. Implement PHP application that asks a random question(from a given set) to the user and evaluates if the user's answer is correct.

   (A set of questions and its corresponding answers are available in folder '3')

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Exam Report should be prepared with following contents.

A proper report is to be submitted after the examination. It should include at least the following:

1. A title page that includes subject, date, author name, roll no and University Register Number.
2. Problem statement.
3. Brief explanation of the theory related to your problem.
4. A description of your implementation. Explain in abstract terms (not program syntax) how it works and why you chose your particular solution to the problem. Show diagrams if you like.
5. Pointers to readable source files, executable files, and the shell commands used to compile, start the programs etc.
6. Informative listings of test runs, i.e. at least Three or Four test runs.
7. Listings of well-commented and well-structured programs.