Consider the Lab Exam for Python Programming is conducted. Write program for automatic evaluation of the online lab exam submission:

* Set of questions are maintained using HASH MAP/HASH TABLE (like Question Number (Q1, Q2, and Q3…Q10) as a key and Question text as a value). Question text will be like Python program using list, Python Program using Dictionary, Python program using exception handling… etc. ( Select 10 topics from python programming.)
* Create Student class with the details like Reg no, and array of question numbers (Maximum 4 random questions from Pool of 10 Questions), marks array [5 component – 4 Questions (4X10) and one Quiz (10 Marks), total marks (50)]. Accept the Quiz Marks form the user.
* Create a text file by every student which comprised of the Python code for all four questions. First line Question number and next line onwards answer.
* Evaluate the answer script using the keywords in the question paper. For example If the question comprised of Python program using Dictionary, search for the keyword related to Dictionary in python (For Eg: DICT, KEYS () …) in the answer. If it is there give the marks as 10.
* Store the marks and total marks of every student in the student class. Print the mark list of all students and display the class average.
* Create arraylist/ vector (10) for every question (10 question) with the details reg number and marks. Display question wise class average.
* Include Exception handling mechanism while assigning marks (0-10), while entering the Quiz Marks (0-10) and while entering question number during the input.