10-28-2016

Python Practice

1. A teacher is grading the history exam of the students. If the score is greater or equal to 90, the grade should be “A”; if score is greater or equal to 80, then it’s “B”; if score is greater or equal to 70, then it’s “C”; if score is greater or equal to 65, then it’s “D”; otherwise it should be “F”.

Please write a script to help the teacher. It just needs to enter the score, and A/B/C/D/F should be printed out.

2. Write a function that takes a list and returns a new list that contains all the elements of the first list minus duplicates.

For example, define an arbitrary list “python programming is fun” within the script, the output should be

Before: “p y t h o n p r o g r a m m I n g I s f u n”

After : “p y t h o r g a m i n g s f u”

3. Letters permutation: Generate all permutations of “ABC”

Output would be “ABC”, “ACB”, “BCA”, “BAC”, “CAB”, “CBA”\

myStringList = [‘A’, ‘B’, ‘C’]

myStringList = [‘A’, ‘B’, ‘C’]

=🡺 [‘AA’, AB’, ‘AC’, ‘BA’, ‘BB’, ‘BC’, ‘CA’, ‘CB’, ‘CC’]

🡺 [, ‘AB’, ‘AC’, ‘BA’, , ‘BC’, ‘CA’, ‘CB’, ]

myStringList = [‘A’, ‘B’, ‘C’]

4. User enters any number that is less than 20, print out all its factors.

For example, user enter “6”, the result would be “1, 2, 3, 6”

6/1 = 6 🡺 0

6/2 = 3 🡺 0

6/3 = 2 🡺 0

6/4=1.5 🡺2

6/5=1.2 🡺1

6/6 = 1🡺0