

Department of Computer Applications

PESU

MCA III Sem

Python Programming

Assignment 5

Use lambda functions, map, reduce and filter and list comprehension to solve the following

1. Print the square root of a number
 2. Solve the expression $x+y*z/p$
 3. From a given list filter out only numbers that are divisible by 3.
 4. Remove the 'empty' elements of a iterable
 5. Find only the names that start with 'J'.
 6. Compute the product of a list of integers
 7. Filter out the vowels from a list
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1. Remove vowels from a sentence
 2. Take two lists of same kind of input and return a dictionary – first list item as key, second list item as value
 3. Change to uppercase in a list
 4. Change to lowercase in a list
 5. Take a matrix as input and return a list with each row placed on after the other
 6. Add two list comprehensions
 7. Print the length of each word in a list
 8. Print the first and last letter of every name in a list
 9. Print the reverse of each name in a list
 10. Create a list of all possible pairs of drink and food from the lists ['water', 'tea', 'juice'] and ['ice cream', 'chocolates', 'strawberry'], respectively
 11. Create a list of the squares of the integers from 0 to 9 where the square is greater than 5 and less than 50
 12. Create a list that contains names that start with a vowel