

Lab Assignment

Due Date: 24/10/2025

Maximum Points: 150

Section: BSCS 3, BSSE 3

Note: Plagiarism will lead to zero marks in all the assignments. No submissions will be accepted on email in any case

Q1: Apply following function in Dictionary data structure in python for following problem:

items() keys() pop() popitem() values() update()

Implement nested to nested to nested dictionary:

Electronics	Laptop
	Mobile
Makeup	Foundations
	Lipstick

Brand1	Dell
Brand2	HP
Brand3	ASER
Brand4	TOSHIBA

C1	NOKIA
C2	INFNIX
C3	SAMSUNG
C4	OPPO

F1	MISSROSE
F2	HUDA BEAUTY
F3	LOREAL
F4	MAC

L1	MEDORA
L2	HUDA BEAUTY
L3	LOREAL
L4	FLARMAR

Store all record in dictionary carefully than perform following functions:

- Print all mobile and laptop types
- Print all makeup products
- Print only mac from dictionary
- Add new laptop mobile and makeup type in diction in related part.
- Remove MEDORA from dictionary.
- Print only Brand3, C4, F4, L2
- Add new complete category and sub category of your desire product in dictionary.
- Remove any laptop, mobile, foundation and lipstick from dictionary.

Using for loops

- Print those products which start from 'M'
- Print those products which contained 'M' and 'E'
- Print those products which contained number of characters less than 4
- Print product with number of characters

Using for loops

- Print those Mobile names which contained 'I'
- Print those foundations names which contained 'Y' at the last position