Question 1:

Write a Python function to check whether the number given below is present in between 5 to 10 (both included) or not.

num = 7

Expected Output:

7 is present between 5-10.

Question 2:

Write a Python function that accepts two arguments and calculates the addition and subtraction of it. Also, print both the arithmetic results in a single return call.

Expected Output:

(Addition, Substraction) : (50, 30)

Question 3:

Create a function in Python that displays the name and results of a candidate. The function should accept the candidate's name and his/her results as "Pass/Fail." If the result is missing in the function call, show it as "Pass."

Expected Output:

Sam is Pass.

Judy is Fail

Question 4:

We have a list of numbers given below. Write a Python function to print all the odd-indexed items from the list.

n = [2, 3, 5, 6, 8, 9]

Expected Output:

(3, 6, 9)

Question 5:

We have the names of six countries given below. Write a Python function to print all the countries that start with the letter 'A.'

'Austraiia', 'India', 'Austria', 'America', 'Russia', 'Iran'

Expected Output:

['Austraiia', 'Austria', 'America']

Question 6:

A list of tuples is given below, containing the candidate's name and their heights(in cm). Sort this list using Lambda functions according to the heights of the candidates.

candidate_details = [('Harry', 168), ('Jhonny', 160), ('Brad', 178), ('Chris', 172)]

Expected Output:

[('Jhonny', 160), ('Harry', 168), ('Chris', 172), ('Brad', 178)]

Question 7:

Write a Python function to find 'Mall' from the dictionary 'map_details' given below.

map_details = {101:'Park', 102:'Zoo', 103:'Mall'}

Expected Output:

103

Question 8:

Write a Python program to add the three lists given below using Python map and Lambda function.

list_1 = [1, 5, 8]

list_2 = [3, 2, 5]

list_3 = [2, 3, 6]

Expected Output:

Resultant List: [6, 10, 19]

Question 9:

We have the marks of a student in each subject given below. Write a Python function that takes two parameters 'name' and 'subjects_marks.' Finally, print the student's name and all the subjects in which his/her marks are above 60. If the 'name' is not provided, print 'None.'

Mathematics = 80, Physics = 58, Chemistry = 62, English = 72, Biology = 50

Expected Output:

Name: Brandon - Subjects: {'Chemistry', 'English', 'Mathematics'}

Question 10:

Using Lambda function, extract and print the year from the datetime object given below.

given_date = datetime(2008, 6, 12, 10, 30, 0)

Expected Output:

2008