# Question1

Use python lists and make an list of numbers.

Write a function which returns sum of the list of numbers

# Question2

Setup a dict structure like this in python

Dict1: (this is a key, value pair of user id and username)

{

   “1” : “name1”,

   “2” : “name2”,

   “3” : “name3”

} etc..

Dict2: (this is a key value pair of user id and exam score)

{

   “1” : 50,

   “2” : 60

   “3” : 70

}

These are just sample data assume there are hundreds of users

Write a function in python in python, which will return maximum i.e function should return dictionary like

{

  “3” : 70

}

Question 3

Assume we have list like this

[0,0,0,1,1,1,0,0,0,1,1,0,1,1,1,1,0,0,1,1]

Basically a list of zero’s and one’s.

Write a python function to the number of maximum consecutive  one’s present in the array.

E.g output for the above array would be 4

Question 4

Design a mysql database. Requirements are as follows

1. We have two entities “candidate” and “test\_score”
2. candidate has properties name, email address
3. Every candidate has to give 3 tests like “first\_round”, “second\_round” , “third\_round” and scoring for every test is done out of 10.

Now using flask/django, need to create rest api to do the following

1. Insert a candidate into database
2. Assign score for a candidate based on the test
3. Api to get highest scoring candidate and average scores per round for all candidates

Next,

Write a route in flask or django GET, POST route to save a user, login a user, add/update address for that user.