

Data Analytics & Machine Learning

Task-1

Topic: Python basics

General Instructions:

- Tasks should be completed by 20th September, 2023. Doubts and task discussion sessions will be conducted in the following week.
- You can refer to online resources if needed
- Add necessary/relevant comments in our code.

Questions:

Q1)

zip : <https://www.hackerrank.com/challenges/zipped/problem?isFullScreen=true>

Q2)

<https://www.hackerrank.com/challenges/most-commons/problem?isFullScreen=true>

Q3)

list + dict :

<https://www.hackerrank.com/challenges/finding-the-percentage/problem?isFullScreen=true>

Q4)

lambda :

<https://www.hackerrank.com/challenges/validate-list-of-email-address-with-filter/problem?isFullScreen=true>

Q5)

basic string properties :

<https://www.hackerrank.com/challenges/python-mutations/problem?isFullScreen=true>

Q6)

Check if the first and last number of a list is the same

```
numbers_x = [10, 20, 30, 40, 10]
```

```
numbers_y = [75, 65, 35, 75, 30]
```

Q7)

Print the following pattern

A

2 3

D E F

7 8 9 10

K L M N O

Q8)

Print the following pattern

```
      *
    *  *
  *    *
*      *
*          *
*              *
* * * * *
```