

#### Coding Instructions:

- Please note that candidates can choose any language to complete the assignment.
- Once the test is complete, please upload it to a shared drive, for ex, Google Drive, or Dropbox
- The test link should be submitted by 6 pm **14th July 2020** through google form shared with you in the internshala chat.

#### Problem 1:

We have a string “input\_str”, and input\_str can be any alpha-numeric text with length of 10 to 10000.

Example of input\_str:

```
Input_str = "With the recent uptick to the COVID-19 positive cases and many states in various phases of restarting the economy; the food service industry and the restaurant sector have been strongly impacted. DMS Coalition is proud to announce the "Facemasks For Restaurants Donation Initiative."
```

We have another variable, an array of words called “validation\_array”. It can have upto 1000 items.

Example of validation\_array:

```
Validation_array = ["food", "face", "donation", "coalition", "economy", "sector"]
```

We need to identify and print the output that the items in “validation\_array” are occurring how many times in input\_str.

Example:

```
input_str = "With the recent uptick to the COVID-19 positive cases and many states in various phases of restarting the economy; the food service industry and the restaurant sector have been strongly impacted. DMS Coalition is proud to announce the "Facemasks For Restaurants Donation Initiative with a target of $2M in donation"
```

```
validation_array = ["food", "face", "the", "donation", "coalition", "economy", "sector"]
```

output:

```
food: 1
face: 1
the: 6
donation: 2
coalition: 1
economy: 1
sector: 1
```

## Problem 2:

We have a variable `input_array` which can contain items with alphanumeric of upto 1000 characters. We have another array called `rejected_items`. We need a function which will filter `input_array` and exclude all the items from `rejected_items`. "Input\_array" can contain upto 1000 items, and `rejected_items` can contain upto 100 items.

Example:

```
Input_array = ["impolite", "cows", "undress", "rule", "illustrious", "beam", "helpless", "gold", "hair",  
"vacuous", "help", "guess", "squalid", "wonderful", "memorise", "present", "painful", "brake", "sand",  
"lip", "rainstorm", "talk", "abashed", "box", "partner", "chop", "tenuous", "robin", "trees", "moor",  
"hunt", "pack", "old-fashioned"]
```

```
rejected_items=["cows", "partner", "wonderful", "rainstorm", "pack", "painful"]
```

Example of output in above example:

```
"impolite", "undress", "rule", "illustrious", "beam", "helpless", "gold", "hair", "vacuous", "help",  
"guess", "squalid", "memorise", "present", "brake", "sand", "lip", "talk", "abashed", "box", "chop",  
"tenuous", "robin", "trees", "moor", "hunt", "old-fashioned"
```