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Homework 1 - IST 652

Complete the following tasks in the cells provided. If you need additional cells, please add them. To submit your solution, save it first (in JupyterHub), then download the notebook as a .ipynb file to your local computer system and submit it via Blackboard. (Use JupyterHub's "File" menu and the "Download" option in it to download the notebook file)

1. Create a string called *myfirstname* and store your first name in it

```
In [8]: myfirstname = "Mrudu Lahari"
```

2. Create a string called mylastname and store your last name in it

```
In [9]: mylastname = "Malayanur"
```

3. Create a string called myname that concatenates the strings myfirstname and mylastname that you created previously

```
In [10]: #performing string concatination by using + operator
myname = myfirstname +" "+ mylastname
myname
```

- Out[10]: 'Mrudu Lahari Malayanur'
 - 4. Use the appropriate methods seen in the class session to do the following on the string *myname*:
 - 4a. Print out the number of characters (i.e. the length) that make up myname

```
In [24]: #using function len to count characters stored in string myname.
print(len(myname))
```

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4b. Derive a substring composed of the letters in positions 2 to 5 from myname. The characters in positions 2 and 5 must be included

```
In [25]: #performing slicing to extract substring from a string. Since, the end count is not included, as 5th letter is required, giving end count to 6 myname[2:6]
```

- Out[25]: 'udu '
 - 4c. Choose a letter that is present in myname and replace it with the character X

```
In [27]: #Using function replace to u with X.
myname.replace('u','X')
```

- Out[27]: 'MrXdX Lahari MalayanXr'
 - 5. Create a list called *WeekDays* that contains the names of the day of the week.

```
In [30]: #using [ ] to create a list of strings.
WeekDays = ['Monday', 'Tuesday', 'Hursday', 'Friday', 'Saturday', 'Sunday']
```

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WeekDays

```
Out[30]: ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']
```

6. Create a dictionary that uses the course numbers of the courses you are taking this semester as the keys of the dictionary and for each key associate as its value the day of the week in which you have that class. As an example for IST 652, the entry would be *652: Wednesday*

```
In [38]: #Creating key value pairs. For the those having multiple values, created a tuple
myCourses = {652:"Monday", 675:"Wednesday", 636:("Tuesday","Thursday")}
myCourses
```

```
Out[38]: {652: 'Monday', 675: 'Wednesday', 636: ('Tuesday', 'Thursday')}
```

7. Do some research on how to use Markdown commands and write the text of the first three sections of your resume (example: education, objectives, past experience, etc.).

You can use the following resource to learn about Markdown:

- https://medium.com/analytics-vidhya/the-ultimate-markdown-guide-for-jupyter-notebook-d5e5abf728fd
- Short video: https://www.youtube.com/watch?v=uVLzL5E-YBM
- Long video/tutorial: https://www.youtube.com/watch?v=mTlifW_LU5s

Jupyternotebook Tutorial

• https://www.youtube.com/watch?v=DKiI6NfSIe8&t=711s

In []:

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