string_manipulation

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1 String Manipulation

1.1 String loops

```
[2]: fruit ='banana'
index=0
while index< len(fruit):
    letter = fruit [index]
    print (index, letter)
    index=index+1</pre>
0 b
1 a
2 n
3 a
```

1.2 String Slicing

4 n 5 a

```
[3]: s="Welcome to Higher Colleges of Technology"

print (s[0:4]) #first 4 letters

print (s[6:7]) #starting from 6th to 7th

print (s[6:20]) #starting from 6th to 20th

print (s[:12]) #first 12 letters

print (s[2:]) #all after 2nd letter

print (s [:]) #everyting

print (s) #everything
```

```
Welc
e
e to Higher Co
Welcome to H
lcome to Higher Colleges of Technology
Welcome to Higher Colleges of Technology
Welcome to Higher Colleges of Technology
```

1.3 String conversion

124

```
[4]: str3 = '123'
str3= int (str3)+1
print (str3)
```

1.4 String functions and methods

```
[13]: var1 =' Higher Colleges of Technology '
    var2='College'
    var3='g'
    print (var1.upper()) #capitalize
    print (var1.lower()) #to lower case
    print (len(var1)) #length of string
    print (var1.count(var3)) # find how many g letters in var1
    print (var1.endswith(''))
    print (var1.startswith('0'))
    print (var1.find('h', 0, 29))
    print (var1.lstrip()) # It removes all leading whitespace of a string in var1
    print (var1.strip()) # It removes all trailingwhitespace of a string in var1
    print (var1.strip()) # It removes all leading andtrailing whitespace
    print ('\n') #empty line
    print (var1.replace('Colleges', 'University')) #replaces the word
```

```
HIGHER COLLEGES OF TECHNOLOGY
higher colleges of technology
31
3
True
False
4
Higher Colleges of Technology
Higher Colleges of Technology
```

Higher University of Technology

1.5 Parsing and Extracting strings

```
[15]: Maindata = 'From ossama.embarak@hct.ac.ae Sunday Jan 4 09:30:50 2017'
    atpost = Maindata.find('@') #first occurence of @
    print ("\n<<<<<<<<<>>>>>>>>")
    print (atpost)#firt 19 chracters
    print (Maindata[:atpost]) #create and print array of first 19
    data = Maindata[:atpost]
```