



NED University of Engineering and Technology
Department of Computer and Information Systems Engineering
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FE Batch 2020

CS-115 Computer Programming

Online Lecture 11b (Week 10)
Practice Problems on Files

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Files – Practice Problem 1

Write Python program to input and store non-negative integer values from user. User can input as many values as s/he wants separated by spaces; presses enter to quit. Ignore any other invalid entries; do not write them to file. Ask user if s/he wants to see the contents of the file at the end.

```
values=input('Enter integers separated by spaces:')
values=values.split()
with open('values.txt','w+') as f:
    for val in values:
        if val.isdigit():
            f.write(val+' ')
choice=input('Press \'y\' to verify contents....')
if choice=='y':
    f.seek(0)
    print('Contents of the file',f.name,':\n',f.read())
```



Files – Practice Problem 2

Write Python program to read the file created in Practice Problem 1 and print average of the numbers.

```
total=0
with open('values.txt','r') as f:
    values=f.read()
    values=values.split()
    for val in values:
        total+=int(val)
print('Average:',total/len(values))
```



Files – Practice Problem 3

The cryptography function `crypto` takes as input a string (i.e., the name of a file in the current directory). The function should print the file on the screen with this modification: Every occurrence of string 'secret' in the file should be replaced with string 'xxxxxxx'.

Test Data:

File name:

`crypto.txt`

File contents:

I will tell you my secret. But first, I have to explain why it is a secret.

And that is all I will tell you about my secret.

```
>> crypto('crypto.txt')
```

I will tell you my xxxxxxx. But first, I have to explain why it is a xxxxxxx.

And that is all I will tell you about my xxxxxxx.



Files – Practice Problem 3

The cryptography function `crypto` takes as input a string (i.e., the name of a file in the current directory). The function should print the file on the screen with this modification: Every occurrence of string 'secret' in the file should be replaced with string 'xxxxxx'.

```
def crypto(fname):  
    with open(fname, 'r') as f:  
        text=f.read()  
        text=text.replace('secret', 'xxxxxx')  
        print(text)  
  
file_name=input('Enter file name with extension:')  
crypto(file_name)
```



Thank you!