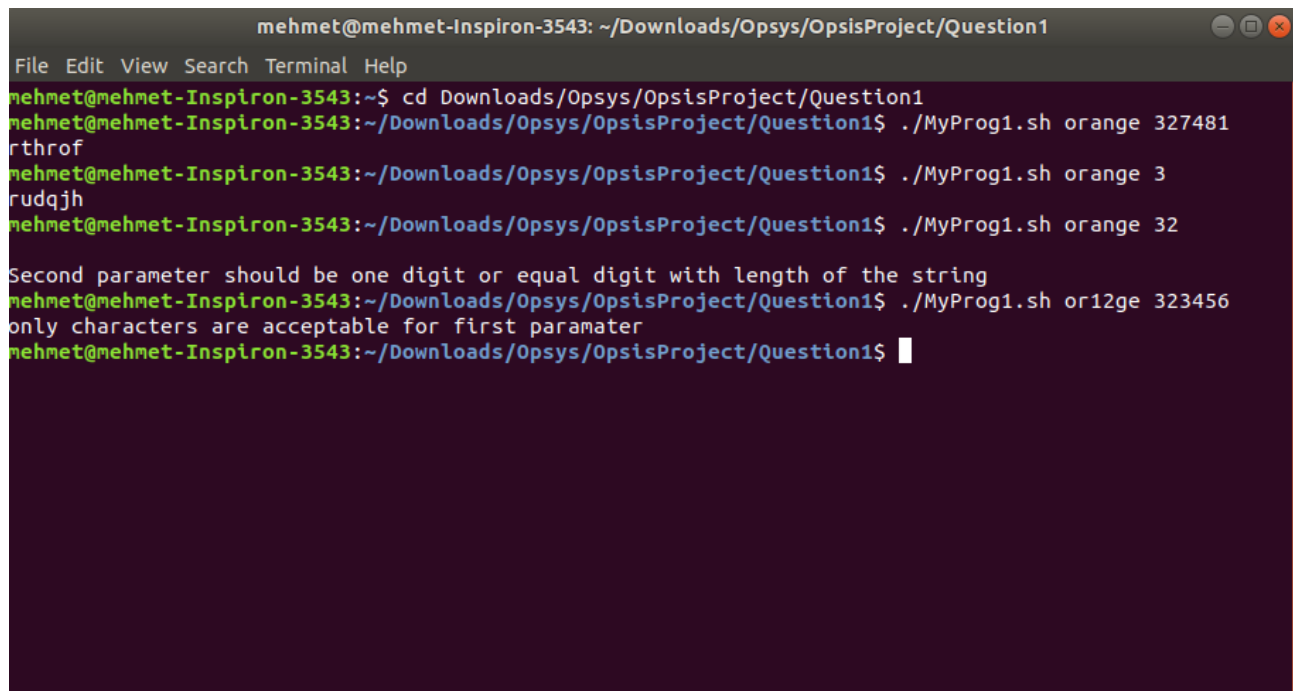# CSE 333 – OPERATING SYSTEMS PROJECT 1

1) Take string's characters by one by and convert it to their ascii values. Then, we add its ascii value by corresponding number of second parameter. Final, convert ascii value to character and print it.

ERROR controls:
1- First argument should not contain any integer.
2- Second parameter should be 1 digit or equal digit with the length of the string

```
mehmet@mehmet-Inspiron-3543: ~/Downloads/Opsys/OpsisProject/Question1

File Edit View Search Terminal Help
mehmet@mehmet-Inspiron-3543:~$ cd Downloads/Opsys/OpsisProject/Question1
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question1$ ./MyProg1.sh orange 327481
rthrof
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question1$ ./MyProg1.sh orange 3
rudqjh
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question1$ ./MyProg1.sh orange 32

Second parameter should be one digit or equal digit with length of the string
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question1$ ./MyProg1.sh or12ge 323456
only characters are acceptable for first paramater
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question1$ 
```

2) We have created a new story in "story.txt" file that has been generated three random numbers to take random line from three different files (giris.txt, gelisme.txt, sonuc.txt).

ERROR control:

1- First argument should be existing file.

3) Scan all files in the current directory and check if it is writable, move the file to writable directory.

ERROR controls:
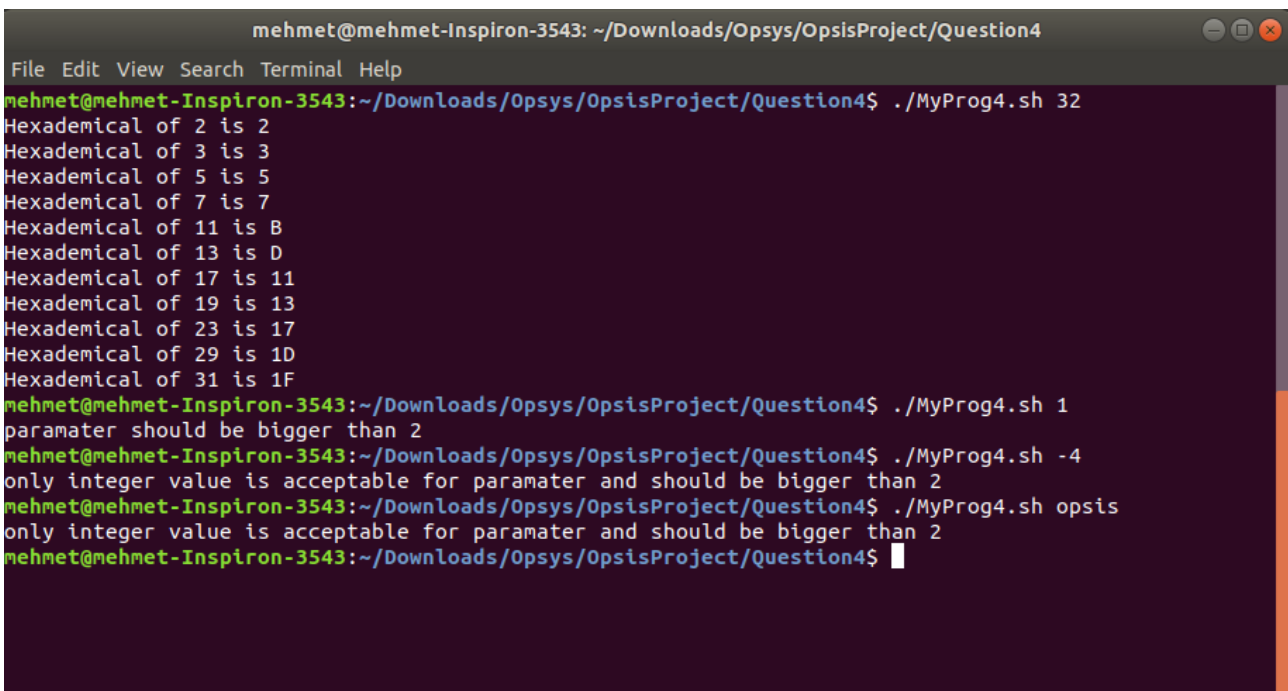1- if writable directory is not exist then create it.

4) In a for loop, check primeness of each integer number between 2 and given number. If it is prime then convert it to hexadecimal number.

ERROR control:
1) Given parameter should not contain any character.

2) Given number should be bigger than 2.
3) Given number should not be negative number.

5) There are four condition for this problem:

First condition, without wildcard
- scan each file if it matches with absolute file name, ask to delete it.
(./MyProg5.sh "adana.txt")

Second condition, "*...*"
- scan each file if it contains with given pattern, ask to delete it
(./MyProg5.sh "*an*")

Third condition, "...*"
- scan each file if it begins with given pattern, ask to delete it
(./MyProg5.sh "a*")

Last condition, "*..."
- scan each file if it ends with given pattern, ask to delete it
(./MyProg5.sh "*txt")

We implemented these conditions in a function. If directory is given to program, it goes sub
directories recursively. If directory is not given only checks files which is in the current directory.

```
mehmet@mehmet-Inspiron-3543: ~/Downloads/Opsys/OpsisProject/Question5
File  Edit  View  Search  Terminal  Help
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question5$ ./MyProg5.sh "*a*" .
Do you want to delete adana.txt: ? (y/n) n
Do you want to delete ankara.txt: ? (y/n) n
Do you want to delete bursa.txt: ? (y/n) n
Do you want to delete argentina.txt: ? (y/n) n
Do you want to delete china.txt: ? (y/n) n
Do you want to delete finland.txt: ? (y/n) n
Do you want to delete japan.txt: ? (y/n) n
Do you want to delete andromeda.txt: ? (y/n) n
Do you want to delete blackhole.txt: ? (y/n) n
Do you want to delete earth.txt: ? (y/n) n
Do you want to delete milkway.txt: ? (y/n) n
Do you want to delete filename.txt: ? (y/n) n
Do you want to delete istanbul.txt: ? (y/n) n
0 file deleted
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question5$ ./MyProg5.sh "a*"
Do you want to delete adana.txt: ? (y/n) n
Do you want to delete ankara.txt: ? (y/n) n
0 file deleted
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question5$ ./MyProg5.sh "*a.txt"
Do you want to delete adana.txt: ? (y/n) n
Do you want to delete ankara.txt: ? (y/n) n
Do you want to delete bursa.txt: ? (y/n) n
0 file deleted
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question5$ ./MyProg5.sh "*a.txt" country
Do you want to delete argentina.txt: ? (y/n) n
Do you want to delete china.txt: ? (y/n) n
Do you want to delete andromeda.txt: ? (y/n) n
0 file deleted
mehmet@mehmet-Inspiron-3543:~/Downloads/Opsys/OpsisProject/Question5$
```

MENU

File Edit View Search Terminal Help

```
------------------------------------
 Main Menu
------------------------------------
[1] Chipher word
[2] Create story
[3] Move files
[4] Convert hexademical
[5] Delete files
[6] Exit
======================
Enter your menu choice [1-6]: 1
Enter the string
apple
Enter number
12345
brspj
press a key..
```

File Edit View Search Terminal Help

```
------------------------------------
 Main Menu
------------------------------------
[1] Chipher word
[2] Create story
[3] Move files
[4] Convert hexademical
[5] Delete files
[6] Exit
======================
Enter your menu choice [1-6]: 2
Enter file
story.txt
story.txt is exist.Do you want it to be modified? (y/n): y
A random story is created and stored in story.txt.
Do you want to read story? (y/n): y
Buralardan uzakta kucuk bir ulke varmis.

Yardimsever arkadasim hemen imdadina kostu. Dikkatlice kozanin liflerini siyirdi, kozayi araladi
ve kelebegin fazla cabalamadan kozadan cikmasini sagladi.

Arkadasim kelebegin isini kolaylastirmak isterken onun guclenmesine engel olmustu.

press a key..
```

File Edit View Search Terminal Help

```
-----------------------------------
 Main Menu
-----------------------------------
[1] Chipher word
[2] Create story
[3] Move files
[4] Convert hexademical
[5] Delete files
[6] Exit
=======================
Enter your menu choice [1-6]: 3
3 files moved to writable directory.
press a key..
```

File Edit View Search Terminal Help

```
-----------------------------------
 Main Menu
-----------------------------------
[1] Chipher word
[2] Create story
[3] Move files
[4] Convert hexademical
[5] Delete files
[6] Exit
=======================
Enter your menu choice [1-6]: 4
Enter number
40
Hexademical of 2 is 2
Hexademical of 3 is 3
Hexademical of 5 is 5
Hexademical of 7 is 7
Hexademical of 11 is B
Hexademical of 13 is D
Hexademical of 17 is 11
Hexademical of 19 is 13
Hexademical of 23 is 17
Hexademical of 29 is 1D
Hexademical of 31 is 1F
Hexademical of 37 is 25
press a key..
```

```
--------------------------------
 Main Menu
--------------------------------
[1] Chipher word
[2] Create story
[3] Move files
[4] Convert hexademical
[5] Delete files
[6] Exit
======================
Enter your menu choice [1-6]: 5
Enter a pattern
"a*"
Do you want to give directory: ? (y/n)n
Do you want to delete adana.txt: ? (y/n) n
Do you want to delete ankara.txt: ? (y/n) n
0 file deleted
press a key..
```

```
--------------------------------
 Main Menu
--------------------------------
[1] Chipher word
[2] Create story
[3] Move files
[4] Convert hexademical
[5] Delete files
[6] Exit
======================
Enter your menu choice [1-6]: 5
Enter a pattern
"a*"
Do you want to give directory: ? (y/n)y
Enter a directory if you wish
.
Do you want to delete adana.txt: ? (y/n) n
Do you want to delete ankara.txt: ? (y/n) n
Do you want to delete argentina.txt: ? (y/n) n
Do you want to delete andromeda.txt: ? (y/n) n
0 file deleted
press a key..
```