

NAME : _____

CS 4350 – Unix Systems Programming

Serial Number:

Group Number:

Assignment Number: _____

Due Date: 3 / 3 / 2021

Write a script that does the following:

1. Make directory by checking existence
2. Test if File Exist. If it exists then Read the File, display its size, number of chars in the file, and its contents. Display a message it does not exist , then create the file.
3. Copy a file to another file and display the content of both files. Display a message if source file does not exist. Display a message if destination file does not exist , create the file , copy and display the content of the new file.
4. Append **“Learning Scripts and Shell Programming “** to an existing File. Display a message it does not exist
5. Delete an existing File. Display a message it does not exist
6. Parse Current Date, Show Process Status.
7. Use random number generator that generates two numbers and store them in two variables such as A and B. The Values of generated numbers are either 0 or 1. Display Boolean expression for A **XOR** B
9. Exit

Note :

1. Each of the above items must be implemented in a separate function.
2. Must pass parameters to function for items 1 thru 5 , and 7.
3. Must use case statement.

4. The XOR Boolean expression for two values are as follows :

A	B	A XOR B
0	0	0
0	1	1
1	0	1
1	1	0

Instructions :

1. The script must be syntactically and logically correct. The script will be tested **using Zeus Server** at the university.
2. Must use functions .
3. The output must follow the sample run format.
4. You must upload the source of your solution **using Canvas** –
Make sure you include the above as comments in your program

Make sure that you name your homework document as follows :

HW3_SP21_FirstName_LastName.sh

Where FirstName is your First Name and LastName is your Last name .

For example , the file name should look something like :

HW3_SP21_Husain_Gholoom.sh

You must upload your programs no later than the 5:15 pm on the due date. **No late assignments will be accepted..**

The following points will be deducted if :

- Compilation Errors, missing electronic copy. (- 10 points)
- Logical Errors (at least -1 point)
- Other (.75 points) if any of the following takes a place :
 - Incorrect Output format.
 - Incorrect script file name.
 - Incorrect Style **such as but not limited to** Missing Header comments , missing footer , missing section number , missing assignment number ... etc, missing script documentation
 - Not replacing my name with your name.

Sample Run: The script starts her

CS 4350 – Unix Systems Programming

Section Number : _____

NAME: _____

Assignment Number: _____

Due Date: 3 / 3 / 2019

The function of this script is to:

1. Make directory by checking existence. Display error message if it exist.
2. Test if File Exist. If it exists then Read the File, display its size, number of chars in the file, and its contents. Display a message it does not exist.
Create the file.
3. Copy a file to another file and display the content of both files. Display a message if source file does not exist. Display a message if destination file does not exist , create the file , copy and display the content new file
4. Append “Learning Scripts and Shell Programming “ to an existing File.
Display a message it does not exist
5. Delete an existing File. Display a message it does not exist
6. Parse Current Date, Show Process Status
7. Using random number generator , generate two numbers such as A and B.
Values of generated numbers are either 0 or 1. Display Boolean expression
for A XOR B
9. Exit

Enter Your Choice: **1**

Enter Name of the Directory to be Created : **images**

Directory is created.

Enter Your Choice: **1**

Enter Name of the Directory to be Created : **images**

Directory already exists .

Enter Your Choice: **2**

Enter File Name: **myfile-1.c**

File Does not exist .

File is created.

Enter Your Choice: **2**

Enter File Name: **myfile-2.c**

Number of lines and words: **7 5**

File Content

```
#include<stdio.h>
main()
{
    Printf("Hi");
}
```

Enter Your Choice: **3**

Enter the name of the source file --- > myfile-2.c

Enter the name of the destination file --- > myfile-1.c

Source File - myfile-2.c

```
#include<stdio.h>
main()
{
    Printf("Hi");
}
```

Destination File - myfile-1.c

```
#include<stdio.h>
main()
{
    Printf("Hi");
}
```

Enter Your Choice: **3**

Enter the name of the source file --- > myfile-3.c

File Does not exist

Enter Your Choice: **3**

Enter the name of the source file --- > myfile-2.c

Enter the name of the destination file --- > myfile-3.c

Destination file myfile-3.c does not exists – File is created

Source File - myfile-2.c

```
#include<stdio.h>
main()
{
    Printf("Hi");
}
```

Destination File - myfile-3.c

```
#include<stdio.h>
main()
{
    Printf("Hi");
}
```


Enter Your Choice: **4**

Enter File Name: **myfile.c**

File Content Before Append

```
#include<stdio.h>
main()
{
Printf("Hi");
}
```

File Content After Append

```
#include<stdio.h>
main()
{
Printf("Hi");
}
```

Learning Scripts and Shell Programming

Enter Your Choice: **4**

Enter File Name: **myfile-5.c**

File Does not exist

Enter Your Choice: 5

Enter The name of file to be deleted: mytest

mytest is Deleted

Enter Your Choice: 5

Enter The name of file to be deleted: mytest

File Does not exist

Enter Your Choice: 6

Current Date is: 2-14-2021

Current Time is: 21:18:16

Process Status

PID	TTY	TIME	CMD
352	ttys000	0:00.13	-bash

Enter Your Choice: 7

The First Generated Number is: 0

The Second Generated Number is: 1

The XOR Boolean Expression For The Generated Numbers is - - > 1

Enter Your Choice: 8

Invalid Choice

Enter Your Choice: 9

Husain Gholoom March - 3 - 2021