ASSIGNMENT.

Q1. 1. Create the following files using VI editor

• Index.html -> this should display the header only using H1 tag.

• Create a new empty file called Index.css and Index.js

```
u95@evb1:~$ vi Index.js
u95@evb1:~$ vi Index.css
u95@evb1:~$<mark>*</mark>
```

• Create a personclass.py file which creates a class in python.

```
u95@evb1:~$ vi pythonclass.py
```

• the python class Person should have data members PersonId, PersonName, Location.

```
52.144.46.236 - PuTTY

class person:
    def __init__ (self) ->None:
        self.PersonId = 0
        self.PersonName = ""
        self.Location = ""
```

• create getter and setter methods for each of the fields.

```
@property
def PId(self):
    return self.PersonId
@PId.setter
def PId(self,value):
    self.PersonId = value

@property
def PName(self):
    return self.PersonName
@PName.setter
def PName(self,value):
    self.PersonName = value

@property
def location(self):
    return self.Location
@location.setter
def location(self,value):
    self.Location = value
```

write a method called show to print all the details.

```
def show(self):
    print["Person_Id : {1} Person_Name : {2} Location : {3}".format(self.PersonId,self.PersonName,self.location)]
```

Q2. Copy the file personclass.py from the current directory to the mycode subdirectory.

```
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u95@evb1:~$ cp pythonclass.py mycode

u95@evb1:~$ cd mycode

u95@evb1:~/mycode$ ls

pythonclass.py

u95@evb1:~/mycode$
```

Q3. List the files in the current directory, in "long listing format".

```
52.144.46.236 - PuTTY
u95@evb1:~$ ls -1
total 76
-rw-rw-r-- 1 u95 u95 4959 Jul 20 22:52 f
-rw-rw-r-- 1 u95 u95
                         0 Jul 20 11:36 file1
-rw-rw-r-- 1 u95 u95 4959 Jul 20 22:58 g
-rwxrwxrwx 1 u95 u95
                       23 Jul 20 23:11 hajong.sh
                       190 Jul 20 21:24 Index.html
-rw-rw-r-- 1 u95 u95
-rw-rw-r-- 1 u95 u95
                        44 Jul 20 23:20 jojo.py
-rw-rw-r-- 1 u95 u95 4959 Jul 20 23:05 k
                      358 Jul 20 22:44 long
-rw-rw-r-- 1 u95 u95
drwxrwxr-x 2 u95 u95 4096 Jul 21 10:03 mycode
-rw-rw-r-- 1 u95 u95
                        34 Jul 20 22:01 pawan
-rw-rw-r-- 1 u95 u95
                       694 Jul 21 09:57 pythonclass.py
-rw-rw-r-- 1 u95 u95
                        21 Jul 20 14:42 pyth.py
drwxrwxr-x 2 u95 u95 4096 Jul 20 12:29 testDir
                       125 Jul 20 10:15 testfile
-rwxrw-r-- 1 u95 u95
                        11 Jul 20 14:50 test.sh
-rw-rw-r-- 1 u95 u95
                        69 Jul 20 14:39 unix
-rw-rw-r-- 1 u95 u95
                        96 Jul 20 14:27 vicky
u95@evb1:~$
```

Q4. List all files, including hidden files, in the /var directory, in reverse alphabetical order and long listing format. (Notice the slash in the directory!)

```
🧬 52.144.46.236 - PuTTY
u95@evb1:~$ ls /var -la | sort -r -k9
                             4096 Jul 21 04:09 tmp
drwxrwxrwt
            9 root root
                             4096 Jul 17 10:42 spool
            7 root root
drwxr-xr-x
                             4096 May 29 17:39 snap
drwxr-xr-x 2 root root
                                4 Apr 23
drwxr-xr-x 2 root root
                             4096 Apr 23
                                          2020 opt
            2 root whoopsie 4096 Jul 17 10:47 metrics
drwxrwsrwt
drwxrwsr-x 2 root mail
                             4096 Apr 23 2020 mail
drwxrwxr-x 14 root syslog
                             4096 Jul 21 00:00 log
lrwxrwxrwx 1 root root
                                9 Apr 23
                                          2020 lock -> /run/lock
drwxrwsr-x 2 root staff
                             4096 Apr 15
                                          2020 local
                             4096 Jul 19 14:08 lib
drwxr-xr-x 75 root root
drwxrwsrwt 2 root whoopsie 4096 Jul 20 12:35 crash
drwxr-xr-x 21 root root
                             4096 Jul 19 14:28 cache
drwxr-xr-x 2 root root drwxr-xr-x 20 root root
                             4096 Jul 21 07:36 backups
                             4096 Jul 17 10:42 ..
drwxr-xr-x 14 root root
                             4096 Jul 17 10:47 .
total 56
u95@evb1:~$
```

Q5. Rename the file personclass.py to person.py.

```
u95@evb1:~$ mv pythonclass.py person.py
```

Q6. Delete the files Index.html, Index.css and Index.js in a single command.

```
₽ 52.144.46.236 - PuTTY
u95@evb1:~$ rm Index.html Index.css Index.js
```

Q7. The cat command outputs the contents of a file to the terminal. The less command outputs the contents of a file to the terminal, page by page, pausing for you to press a key.

Use whichever command is best suited to display the contents of the file person.py.

The head and tail commands output only the first or last few lines (respectively) of a file to the terminal.

Head:

Tail:

```
u95@evb1:~$ tail -5 person.py
  def location(self,value):
       self.Location = value

def show(self):
    print("Person_Id : {1} Person_Name : {2} Location : {3}".format(self.PersonId, self.PersonName, self.location))
```

Display only the first 7 lines of the file animals.txt from the current directory on the terminal. Create the file if it does not exist and add some 10 animal names, one on each line.

```
u95@evb1:~$ head -7 animals.txt
lion
tiger
elephant
deer
cheetah
leopard
hyena
u95@evb1:~$

□
```

Q8. List all animals names that begin between [A-N].

```
52.144.46.236 - PuTTY

u95@evbl:~$ grep [A-N] animals.txt

Lion

Elephant

Deer

Cheetah

Leopard

Hyena

Hippopotamus

Girrafe

u95@evbl:~$
```

Q9. List all the lines which contains "Steve" in the file science.txt.

```
52.144.46.236 - PuTTY

u95@evb1:~$ grep Steve science.txt

Steve is a new joinee in NASA as a researcher.

Steve has many achievements in his resume.

u95@evb1:~$
```

Q10. List all the lines that begin with T in the file science.txt.

```
u95@evb1:~$ grep T[a-Z]* science.txt
There is a famous book written by him on Spcace exploration
The space adventure...
Today he is going to present a presentation on Iot in space exploration.
u95@evb1:~$
```

Q11. Make a copy of the file science.txt and move the copy into a new directory "Science". Create the directory, if required.

```
u95@evb1:~$ cp science.txt Sci.txt u95@evb1:~$ mkdir Science u95@evb1:~$ mv Sci.txt ./Science u95@evb1:~$
```

Q12. Show the first 15 lines from science.txt.

₹ 52.144.46.236 - PuTTY u95@evb1:~\$ head -15 science.txt Steve is a new joinee in NASA as a researcher. He has completed his B.tech from stanford University California. Steve has many achievements in his resume. From First ranker as a Coder in hackerrank to giving contribution is spacex rocket program. There is a famous book written by him on Spcace exploraton The space adventure... Today he is going to present a presentation on Iot in space exploration Space exploration is the use of astronomy and space technology to explore outer space. While the exploration space is carried out mainly by astronomers with telescope, its physical exploration is conducted both by uncrewed robotic space probes and human spaceflight. pcae exploration, like its classical form astronomy, is one of the main sources for space science. while the observation of objects in space , known as u95@evb1:~\$

Q13. Write a python script to accept 4 numbers from the user, store the items into a list. Collect another input from the user for the multiples value. Based on the input multiples value, extract all elements that are a multiple of the input multiples value.

Input Numbers

- 1.100
- 2.56
- 3.90
- 4. 77

Multiples value: 10

Output: 100, 90

Python Code Snippet:

```
print("Input Numbers:")
li = []
for i in range (1,5,1):
    a = int(input("{0} : ".format(i)))
    li.append(a)

mul = int(input("Multiples value: "))
a = ""
for j in li:
    if(j%mul == 0):
        a+= str(j)+", "
print("Output : ",a)
```

Output:

```
$\insp\cong 52.144.46.236 - PuTTY$

u95@evb1:~$ python3 q13.py

Input Numbers:

1 : 100

2 : 56

3 : 90

4 : 77

Multiples value: 10

Output : 100, 90,

u95@evb1:~$
```

SELF DISCOVERY:

1. Set the file MyProgram.java to have a last-modified date of January 1, 2020, 4:15am.

```
u95@evb1:~$ touch MyProgram.java -t 202001010415 u95@evb1:~$ ls -l MyProgram.java -rw-rw-r-- 1 u95 u95 0 Jan 1 2020 MyProgram.java u95@evb1:~$
```

2. You can use a * (asterisk) as a "wild-card" character to specify a group of files. For example, *foo means all files whose names end with foo, and foo* means all files whose names begin with foo. You can use a wildcard in the middle of a file name, such as foo*bar for all files that start with foo and end with bar.

List all web page files (files whose names end with the extension .html or .css) in the current directory. Note that the ls command can accept more than one parameter for what files you want it to list (e.g. ls website/python/).

```
u95@evb1:~$ ls *.html *.css
girrafe.css hello.html index.css index.html sol.html solve.html style.css
u95@evb1:~$
```

Copy all the text files (files whose names end with .txt) from the current folder to the python subdirectory.

```
u95@evb1:~/python$ ls
animals.txt science.txt ss.txt
u95@evb1:~/python$
```

u95@evb1:~\$ cp *.txt python

u95@evb1:~\$ cd pyhton

-----END------