

//M Gayathri-185001050

//Tutorial-4

Task 1

Write regular expression for the following and demonstrate each with example contents in a file

- Words containing vowels
- Words containing consonants

- cs1050@wtl10:~/Desktop\$ cat >practice.txt
- hello birds
- thay are always awesome
- ^C
- cs1050@wtl10:~/Desktop\$ grep "[aeiou]" practice.txt
- hello birds
- thay are always awesome
- cs1050@wtl10:~/Desktop\$ grep "[^aeiou]" practice.txt
- hello birds
- thay are always awesome
- cs1050@wtl10:~/Desktop\$ cat>>practice.txt
- abcd1234
- ^C

Task 2

Write regular expression for the following and demonstrate each with example contents in a file

- Variable name starts with letter followed by any number of letter or digits
- List all files in the default directory that others can read or write

- cs1050@wtl10:~/Desktop\$ cat>>practice.txt
- ++**
- ?????
- abc\$
- ^C
- cs1050@wtl10:~/Desktop\$ grep "\<[a-zA-Z][a-zA-Z0-9]*" practice.txt
- hello birds
- thay are always awesome
- abcd1234
- abc\$
- cs1050@wtl10:~/Desktop\$ ls -l>print.txt
- cs1050@wtl10:~/Desktop\$ cat print.txt
- total 164
- -rw-rw-r-- 1 cs1050 cs1050 5270 Jul 17 08:47 050-gayathri-ex1.docx
- -rw-rw-r-- 1 cs1050 cs1050 6307 Jul 17 08:50 050-gayathri-ex2.docx

- -rw-rw-r-- 1 cs1050 cs1050 6115 Jul 10 09:46 050-gayathri-T1.docx
- -rw-rw-r-- 1 cs1050 cs1050 5685 Aug 7 04:17 050-gayathri-T3.doc
- -rw-rw-r-- 1 cs1050 cs1050 16610 Aug 7 04:25 050-gayathri-T4
- -rw-rw-r-- 1 cs1050 cs1050 14031 Aug 7 04:26 050-gayathri-T4.odt
- -rw-rw-r-- 1 cs1050 cs1050 91 Jul 17 08:56 hello see it
- drwxrwxr-x 2 cs1050 cs1050 4096 Jul 31 05:49 java
- drwxrwxr-x 2 cs1050 cs1050 4096 Jul 10 06:36 javaprograms
- -rw-rw-r-- 1 cs1050 cs1050 1795 Jul 3 04:52 MatrixAddition.class
- -rw-rw-r-- 1 cs1050 cs1050 7111 Jul 3 04:40 matrix.c
- -rw-rw-r-- 1 cs1050 cs1050 5102 Jul 10 06:26 matrix.java
- -rw-rw-r-- 1 cs1050 cs1050 1960 Jul 3 04:52 matrixmultiplication.class
- -rw-rw-r-- 1 cs1050 cs1050 1806 Jul 3 04:52 MatrixSubtraction.class
- -rwxrwxr-x 1 cs1050 cs1050 13168 Jul 17 09:01 poly1
- -rw-rw-r-- 1 cs1050 cs1050 4028 Jul 17 09:01 poly1.c
- -rw-rw-r-- 1 cs1050 cs1050 2140 Jul 17 08:59 poly.c
- -rw-rw-r-- 1 cs1050 cs1050 62 Aug 7 04:37 practice.txt
- -rw-rw-r-- 1 cs1050 cs1050 0 Aug 7 04:39 print.txt
- drwxrwxr-x 2 cs1050 cs1050 4096 Jul 17 09:47 sample
- drwxrwxr-x 6 cs1050 cs1050 4096 Jul 10 09:01 tutorial2
- -rw-rw-r-- 1 cs1050 cs1050 17036 Aug 7 04:13 Tutorial4_17thJuly2019.docx

• Task 3

Write a regex that matches the emails of the form userid@domain.edu, where userid starts with character followed by zero or more character | digit and the domain is one or more characters.

```
cs1050@wtl10:~/Desktop$ cat>email.txt
gayu@domain.org
gayu@
tarun123@gmail.com
dheeru@redmail.in
ash@isk.in
^C
cs1050@wtl10:~/Desktop$ grep ^[a-zA-Z][a-zA-Z0-9]*@[a-zA-Z]*[.][a-zA-Z]*
mail.txt
grep: mail.txt: No such file or directory
cs1050@wtl10:~/Desktop$ grep ^[a-zA-Z][a-zA-Z0-9]*@[a-zA-Z]*[.][a-zA-Z]*
email.txt
gayu@domain.org
tarun123@gmail.com
dheeru@redmail.in
ash@isk.in
cs1050@wtl10:~/Desktop$ grep ^[a-zA-Z][a-zA-Z0-9]*@[a-zA-Z]*[.]"edu"
email.txt
```

Task 4

1. Write grep command that selects lines from file1 that have exactly 3 characters

2. Write grep command that selects lines from file1 that have atleast 3 characters
3. Write grep command that selects lines from file1 that have 3 or fewer characters
4. Counting the number of blank lines
5. Write grep command to retrieve lines that starts with capital letter
6. Grep command to list the lines containing words that begin with capital letter.
7. Grep command to the list the lines that end with a period from the file
8. Write a command to print the lines that has the the pattern "july" in all the files in a particular directory?
9. Write a command to print the lines that has the word "july" while ignoring the case.
10. Write a Unix command to display the lines in a file that do not contain the word "july"?

```
cs1050@wtl10:~/Desktop$ cat>file1.txt
```

```
hello
```

```
Hello
```

```
everyone good morning.
```

```
this is a good day
```

```
abc
```

```
def
```

```
ghi
```

```
^C
```

```
cs1050@wtl10:~/Desktop$ grep -E "^.{3}$" file1.txt
```

```
def
```

```
ghi
```

```
cs1050@wtl10:~/Desktop$ rep -E "...+" file1.txt
```

The program 'rep' is currently not installed. To run 'rep' please ask your administrator to install the package 'rep'

```
cs1050@wtl10:~/Desktop$ grep -c "^s*$" file1.txt
```

```
2
```

```
cs1050@wtl10:~/Desktop$ grep -E "^<[A-Z].*" file1.txt
```

```
Hello
```

```
cs1050@wtl10:~/Desktop$ grep -E ".*[A-Z].*" file1.txt
```

Hello

```
cs1050@wtl10:~/Desktop$ cat>>file1.txt
```

this is august

independence day is in august

that month is fun

^C

```
cs1050@wtl10:~/Desktop$ grep "august" file1.txt
```

this is august

independence day is in august

```
cs1050@wtl10:~/Desktop$ grep -i "august" file1.txt
```

this is august

independence day is in august

```
cs1050@wtl10:~/Desktop$ grep -i -v "august" file1.txt
```

hello

Hello

everyone good morning.

this is a good day

abc

def

ghi

that month is fun