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//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

```
[Harsharshars@webminal.org ~]$cat >practice.txt
cat
sky
birds fly high
they look awesome
^C
[Harsharshars@webminal.org ~]$grep "[aeiou]" practice.txt //words containing vowels
cat
birds fly high
they look awesome
[Harsharshars@webminal.org ~]$cat >>practice.txt
aeiou
^C
[Harsharshars@webminal.org ~]$grep "[^aeiou]" practice.txt //words containing consonants
cat
sky
birds fly high
they look awesome
[Harsharshars@webminal.org ~]$cat >>practice.txt
abc12345
^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

```
[Harsharshars@webminal.org ~]$cat >>practice.txt
++**
?????
abc$
^C
[Harsharshars@webminal.org ~]$
[Harsharshars@webminal.org ~]$grep "^<[a-zA-Z][a-zA-Z0-9]*" practice.txt
// Variable name starts with letter followed by any number of letter or digits

cat
sky
birds fly high
they look awesome
aeiou
abc12345
[Harsharshars@webminal.org ~]$ls -l>print.txt
//files that others can read or write
```

```
[Harsharshars@webminal.org ~]$cat print.txt
total 16
-rw-rw-r--. 1 Harsharshars Harsharshars 100 Aug 6 19:48 "
-rw-rw-r--. 1 Harsharshars Harsharshars 168 Aug 6 19:52 file.txt
-rw-rw-r--. 1 Harsharshars Harsharshars 91 Aug 6 18:30 mail.txt
-rw-rw-r--. 1 Harsharshars Harsharshars 72 Aug 6 18:07 practice.txt
-rw-rw-r--. 1 Harsharshars Harsharshars 0 Aug 6 20:02 print.txt
```

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.

```
[Harsharshars@webminal.org ~]$cat >mail.txt
harshu@domain.org
harshu@
tarush123@gma123.in
ravi@yahoo.in
ravi@dom.edu
aswatha@happy.edu
^C
[Harsharshars@webminal.org ~]$grep ^[a-zA-Z][a-zA-Z0-9]*@[a-zA-Z]*\.[a-zA-Z]* mail.txt
harshu@domain.org
ravi@yahoo.in
ravi@dom.edu
aswatha@happy.edu
[Harsharshars@webminal.org ~]$grep ^[a-zA-Z][a-zA-Z0-9]*@[a-zA-Z]*\.[a-zA-Z]*"edu" mail.txt
ravi@dom.edu
aswatha@happy.edu
```

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"?

```
[Harsharshars@webminal.org ~]$cat>file1.txt
gha
jha
abc
```

```
cat  
at  
a
```

```
hiii this is harshu  
Heyyy how u doing  
hey Hiii This is beautiful  
hello all.  
^C
```

```
[Harsharshars@webminal.org ~]$grep -E "^.{3}$" file1.txt // lines that have exactly 3 characters
```

```
gha  
jha  
abc  
cat
```

```
[Harsharshars@webminal.org ~]$grep -E "...+" file1.txt //lines that have atleast 3 characters
```

```
gha  
jha  
abc  
cat  
hiii this is harshu  
Heyyy how u doing  
hey Hiii This is beautiful  
hello all.
```

```
[Harsharshars@webminal.org ~]$grep -c "^\\s*$" file1.txt // number of blank lines
```

```
2
```

```
[Harsharshars@webminal.org ~]$grep -E "^<[A-Z].*" file1.txt // lines that starts with capital letter
```

```
Heyyy how u doing
```

```
[Harsharshars@webminal.org ~]$grep -E "[A-Z].*" file1.txt
```

```
// lines containing words that begin with capital letter
```

```
Heyyy how u doing  
hey Hiii This is beautiful
```

```
[Harsharshars@webminal.org ~]$grep -E "[.]" file1.txt // lines that end with a period
```

```
hello all.
```

```
[Harsharshars@webminal.org ~]$cat>>file1.txt
```

```
this is the month of July  
july is fun
```

```
that particular month is fun
```

```
^C
```

```
[Harsharshars@webminal.org ~]$grep "july" file1.txt // lines that has the the pattern "july"
```

```
july is fun
```

```
[Harsharshars@webminal.org ~]$grep -i "july" file1.txt // pattern "july" ignore case
```

```
this is the month of July
```

```
july is fun
```

```
[Harsharshars@webminal.org ~]$grep -i -v "july" file1.txt //does not contain "July"
```

gha
jha
abc
cat
at
a

hihi this is harshu
Heyyy how u doing
hey Hiii This is beautiful
hello all.

that particular month is fun