

STUDENT'S NAME Anup Kodlannavar		TOTAL MARKS OBTAINED
CLASS A	SUBJECT CS	
ROLL NO. 14	DATE 4/4/22	

Day 6

1) Regular Expression: In Linux regular expression are special characters which helps to search data and matching complex patterns. Regular expressions are sorted as 'regexp' or 'regex'. Regexp are most commonly used within the Linux commands

grep, sed, te, vi.

Types of Regular expression:

1) Basic regular expression

- (.) Replaces any character
- (^) Matches start of string
- (\$) Matches end of string
- (*) Matches up zero or more times of preceding characters
- (\) Represents special characters
- () Groups regular expression
- (?) Matches up exactly one character.

These are used with commands like te, sed, vi and grep commonly.

2) Interval Regular Expression: This expression tell us about the number of occurrences of a character or string.

Expression.

{m,n} Matches the preceding character appearing 'm' to 'n' times

$\{n, m\}$ Matches the preceding character appearing 'n' times but not more than 'm'.

$\{n, \infty\}$ matches the preceding character only when it appears 'n' times or more.

3) Extensal Regular Expression: This expression contains combinations of more than one expression.

Expression

$1+$ Matches one or more occurrence of the previous character.

$1?$ Matches zero or more occurrence of the previous character.

Q: Give a file 'sample' containing text.

bat

apple

ball

cat

dog

task

people

all

(i) Search for content containing letter 'a'

(ii) Search for content starts with 'a'

(iii) Search for content that end with 't' using \$

(iv) Search for content that contains 'p' appearing 2-times in a string one after the other.

(v) Search for content where character 'a' precedes 't'.

STUDENT'S NAME - Anup Koddannavar		TOTAL MARKS OBTAINED
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→ (i) \$ cat sample | grep a.
apple
all
cat
ball

(ii) \$ cat sample | grep aa
apple
all.

(iii) \$ cat sample | grep t\$
bat
cat

(iv) cat sample | grep -E p\{2}
apple.

(v) cat sample | grep .a\{2}
bat
cat