How Bash Processes Command Lines

Problem 1 – Worked Solution

Initial Command Line

Step 1 – Tokenisation – Identify Unquoted Metacharacters

Step 1 – Tokenisation – Find Words & Operators

Step 2 – Command Identification

Step 3 – Expansions

echo "The number 3" > number.txt

Step 4 – Quote Removal

echo The number 3 > number.txt

Step 5 – Redirections



How Bash Processes Command Lines

Problem 2 – Worked Solution

Initial Command Line

Is /etc | grep net > net.txt

Step 1 – Tokenisation – Identify Unquoted Metacharacters

Step 1 – Tokenisation – Find Words & Operators

Step 2 – Command Identification

```
Is /etc | grep net > net.txt
```

Step 3 – Expansions

There are no expansions to perform

Step 4 – Quote Removal

There is no quote removal to perform

Step 5 – Redirections

```
Is /etc | grep net > net.txt
```

Step 5 – Redirections



How Bash Processes Command Lines

Problem 3 – Worked Solution

Initial Command Line

mkdir \$folder && cd \$folder && touch \$name

Step 1 – Tokenisation – Identify Unquoted Metacharacters

mkdir \$folder && cd \$folder && touch \$name

Step 1 – Tokenisation – Find Words & Operators

mkdir \$folder && cd \$folder && touch \$name

Step 2 – Command Identification



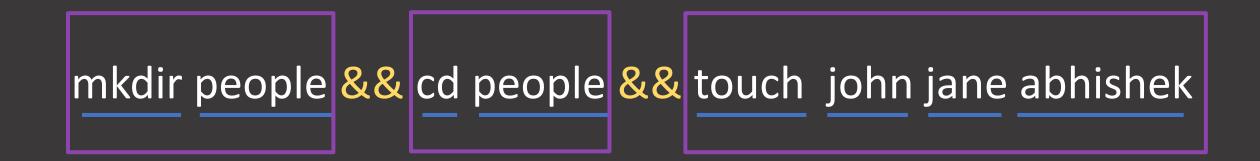
Step 3 – Expansions – Parameter Expansion

mkdir people && cd people && touch john,jane,abhishek

Step 3 – Expansions – Word Splitting

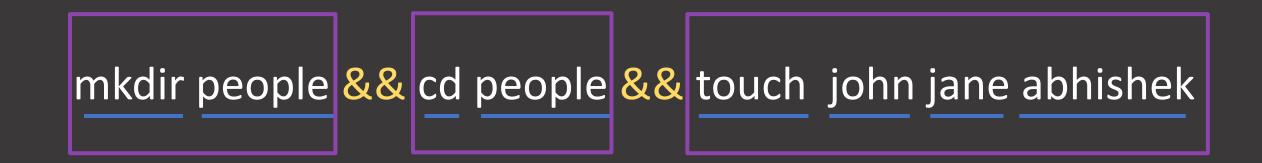
mkdir people && cd people && touch john jane abhishek

Step 4 – Quote Removal



There is no quote removal

Step 5 – Redirection



There is no redirection

How Bash Processes Command Lines

Problem 4 – Worked Solution

Initial Command Line

Step 1 – Tokenisation – Identify Unquoted Metacharacters

Step 1 – Tokenisation – Find Words & Operators

Step 2 – Command Identification

Step 3 – Expansions – Command Substitution

touch "Daily Report 30 Aug 2020"

Step 4 – Quote Removal

touch "Daily Report 30 Aug 2020"

There is no quote removal

Step 5 – Redirections

touch "Daily Report 30 Aug 2020"

There is no redirection