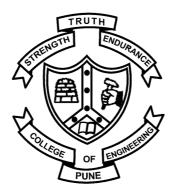
DTL Assignment - Shell Linux Commands

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```
avdhut@142203010 ~/new_cmds $ cat array1.sh | head -n 10 array=(a b c) echo ${array[x]} echo ${array[z]} echo ${array[x]} echo sign loopin-for chr in ${array[0]}; do echo $chr done avdhut@142203010 ~/new_cmds $
```

Figure 1: "cat array1.sh" command

Figure 2: "bash array1.sh Array Operations" command

```
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```

Figure 3: "cat backupMyHome.sh" command



Figure 4: "bash backup My
Home.sh Backup of Home Directory to tmp " command

```
avdhut@142203010 ~/new_cmds $ cat comparison.sh | head -n 10 #!/bin/bash

string_a="UNIX"
string_b="GNU"
echo "Are $string_a and $string_b strings equal?" [ $string_a = $string_b ]
echo $?

num_a=100
num_b=100
echo "Is $num_a equal to $num_b ?" [ $num_a -eq $num_b ]
avdhut@142203010 ~/new_cmds $ $ $
```

Figure 5: "cat comparison.sh" command

```
avdhut@142203010 ~/new_cmds $ bash comparison.sh # String and Integer Comparison | head -n 10 Are UNIX and GNU strings equal? [ UNIX = GNU ]
0
Is 100 equal to 100 ? [ 100 -eq 100 ]
0
avdhut@142203010 ~/new_cmds $
```

Figure 6: "bash comparison.sh" Comparison command

```
avdhut@142203010 ~/new_cmds $ cat conditional.sh | head -n 10 #!/bin/bash a=4 if ((a==4)); then echo yes; else echo no; fi if (( (a-5) == 0 )); then echo yes; else echo no; fi if (( a < 10 )); then echo yes; else echo no; fi if (( a = 5 )); then echo yes; else echo no; fi avdhut@142203010 ~/new_cmds $
```

Figure 7: "cat conditional.sh" command

```
avdhut@142203010 ~/new_cmds $ bash conditional.sh # Conditional Statements | head -n 10 yes no yes avdhut@142203010 ~/new_cmds $ 

| Second Statements | head -n 10 yes yes avdhut@142203010 ~/new_cmds $ |
```

Figure 8: "bash conditional.sh Conditional Statements" command

Figure 9: "cat function1.sh" command

```
avdhut@142203010 ~/new_cmds $ bash function1.sh # Function Blocks | head -n 10
Hello I'm function 4
Bye!
Hello I'm function 2
Bye!
Hello I'm function 1
Bye!
avdhut@142203010 ~/new_cmds $ ■
```

Figure 10: "bash function1.sh Function Blocks" command

```
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```

Figure 11: "cat let.sh" command

```
| Powerfield | X | Image: Note | Note
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Figure 12: "bash let.sh Variables using let" command

Figure 13: "cat numericComp.sh" command

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```

Figure 14: "bash numericComp.sh Number comparison using test" command

```
avdhut@142203010 ~/new_cmds $ cat stringComp.sh | head -n 10 #!/bin/bash [ "apples" = "oranges" ] echo $?

str1="apples" strz="oranges" echo comparing strings stored in variables: [ $str1 = $str2 ] echo $?

avdhut@142203010 ~/new_cmds $
```

Figure 15: "cat stringComp.sh" command

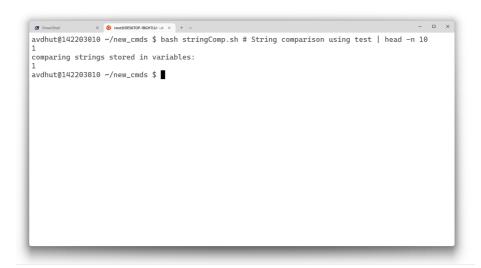


Figure 16: "bash stringComp.sh String comparison using test" command

```
avdhut@142203010 ~/new_cmds $ cat variables.sh | head -n 10 #!/bin/bash
greeting="Welcome"
user=$(whoami)
day=$(date +%A)
echo "$greeting back $user! Today is $day, which is the best day of the week!"
echo "Your Bash shell version is: $BASH_VERSION. Enjoy!"
avdhut@142203010 ~/new_cmds $
```

Figure 17: "cat variables.sh" command



Figure 18: "bash variables.sh Variables and Commands in Bracket" command