Week 3 - Live Sessions

Problem 1

Pre-pend the contents of file1.txt to file2.txt. That is, the contents of file2.txt should be the contents of file1.txt followed by file2.txt.

Solution

```
cat file1.txt file2.txt > file3.txt
cat file3.txt > file2.txt
rm file3.txt
```

Problem 2

Redirect the stderr and stdout of the 1s file1.txt file2.txt command in that particular order to output.txt

Solution

```
ls file1.txt file2.txt 2> output.txt 1>>output.txt
```

Problem 3

Suppose, in some task, you have to count the number of occurences of a certain word in a lot of files and store it in the variable ct. The value of ct should be initialized to 0, at the beginning and the number of words stored in the variable words is to be added. Achieve this task in just one line.

Solution

```
ct=$((${ct:=0}+words))
```

Problem 4

The employee ID of a certain company is in the following format: DDYYPXXX where - DD stands for department; ex: FN for Finance, SD for Software Development - YY stands for work experience - P stands for position; M for Manager, etc. - XXX stands for ID number.

Given a Employee ID, redirect just the Department and the ID Number to $\ \, \text{output.txt} \, .$

Solution

```
echo ${id1:0:2}${id1: -3:3} > output.txt
echo ${id2:0:2}${id2: -3:3} >> output.txt
echo ${id3:0:2}${id3: -3:3} >> output.txt
```

Problem 5

 $\label{thm:continuous} \mbox{The variable } \mbox{filename } \mbox{has name of file along with extension.} \mbox{Find the file extension and display.}$

Solution

```
echo ${filename##*.}
```

Problem 6

Write a script to redirect the manual entry for a command which is specified via variable "command" to a text file man_command.txt (example: if the command is ls, then man_ls.txt) and redirect the standard error to man_command.err. If there is any error, execute the help command and redirect the output to man_command.txt

Prefix

```
command="fg"
```

Solution

```
\verb|man $command 1> man_$command.txt 2> man_$command.err || help $command > man_$command.txt|
```

Problem 7

Write a script to redirect the stderr of a command which is specified via variable "command" to a text file error.txt and print the std out only if there is no error.

Prefix

```
command="cat qqq.txt"
echo "hello world" >qqq.txt
```

Solution

\$command 1>temp.txt 2> error.txt && cat temp.txt