

Quiz: Shell Scripting (Practice Problems)

Note 1. You will have 4 problems on this quiz. One problem will be from previous quiz material, and three problems from the material below.

1 Pipes

Problem 1. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ echo 'hello world' >> README
6 $ echo 'hola mundo' >> README
7 $ echo 'salve mundi' >> README
8 $ cat README | grep 'hello'
```

Problem 2. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ echo 'hello world' >> README
6 $ echo 'hola mundo' >> README
7 $ echo 'salve mundi' >> README
8 $ cat README | grep 'h'
```

Problem 3. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ echo 'hello world' >> README
6 $ echo 'hola mundo' >> README
7 $ echo 'salve mundi' >> README
8 $ cat README | grep 'h' | wc -l
```

Problem 4. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ echo 'hello world' >> README
6 $ echo 'hola mundo' >> README
7 $ echo 'salve mundi' >> README
8 $ cat README | grep 'h.*a'
```

Problem 5. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ touch hello_world
6 $ touch hola_mundo
7 $ touch salve_mundi
8 $ ls | wc -l
```

Problem 6. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ touch hello_world
6 $ touch hola_mundo
7 $ touch salve_mundi
8 $ ls | grep 'h.*a' | wc -l
```

2 Variables

Problem 7. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var="hello world"
6 $ touch $var
7 $ ls | wc -l
```

Problem 8. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var="hello world"
6 $ touch "$var"
7 $ ls
```

Problem 9. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var="hello world"
6 $ touch '$var'
7 $ ls
```

Problem 10. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=`echo hello world`
6 $ touch "$var"
7 $ ls | wc -l
```

Problem 11. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=$(echo hello world)
6 $ touch "$var"
7 $ ls | wc -l
```

Problem 12. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=$(echo echo echo)
6 $ touch "$var"
7 $ ls | wc -l
```

Problem 13. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=$(echo $(echo echo))
6 $ touch "$var"
7 $ ls | wc -l
```

Problem 14. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=$(echo $(echo $(echo)))
6 $ touch "$var"
7 $ ls | wc -l
```

Problem 15. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=$(echo $(echo) echo)
6 $ touch "$var"
7 $ ls | wc -l
```

Problem 16. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ var=echo echo echo
6 $ touch "$var"
7 $ ls | wc -l
```

3 For loops

Problem 17. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in a b c d e f; do touch $file; done
6 $ ls | wc -l
```

Problem 18. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in 'a b' 'c d' 'e f'; do touch $file; done
6 $ ls | wc -l
```

Problem 19. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in 'a b' 'c d' 'e f'; do touch $file; done
6 $ ls | wc -l
```

Problem 20. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in 'a b' 'c d' 'e f'; do touch "$file"; done
6 $ ls | wc -l
```

Problem 21. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in 'a b' 'c d' 'e f'; do touch '$file'; done
6 $ ls | wc -l
```

Problem 22. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in a b c $(echo hello world) d e f; do touch "$file"; done
6 $ ls | wc -l
```

Problem 23. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in 'a b' 'c' $(echo hello world) d' 'e f'; do touch "$file"; done
6 $ ls | wc -l
```

Problem 24. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in "a b" "c" $(echo hello world) d" "e f"; do touch "$file"; done
6 $ ls | wc -l
```

Problem 25. Write the output of the final command in the following terminal session. If the command has no output, then leave the problem blank.

```
1 $ cd
2 $ rm -rf quiz
3 $ mkdir quiz
4 $ cd quiz
5 $ for file in "a b" "c" $(echo hello world) d" "e f"; do touch $file; done
6 $ ls | wc -l
```

Note 2. I will generate new problems by: (1) changing the type of quotation mark, (2) removing/adding quotation marks.