

CTEC 222: UNIX Operating System

Final Project, Fall 2007 Semester

Instructions: Submit the final project with a copy of the signed honor code.

Name:

Honor Code: I have neither taken nor received any help from another person/student for this project.

Signature:

1. Write a command that will change the file protection of the file myfile so that everyone can read the file. The execute and write protections should remain what they are – assume that you do not know the execute and write protections.

2. What is the value of variable V1 after the following command is executed (assume the value of variable V2 is 21)?

```
V1="echo $V2"
```

3. What is the value of variable V1 after the following command is executed (assume the value of variable V2 is 21)?

```
V1=`echo $V2`
```

4. What will the following script (prog1) output if the command was called as follows:

```
prog1 10 20 40
```

```
s=0
for i in $*
do
s=`expr $s + $i`
done
echo $s
```

5. What will the following script (prog2) output if the command was called as follows:

```
prog2 100 20
```

```
if [ $1 -lt $2 ]
then
echo "A"
else
echo "B"
fi
```

6. Write an `expr` command that will output the product of `$a` and `$b` (`$a` times `$b`).

7. What is the difference between the following two commands (assume that `script1` is an executable script).

```
script1  
bash script1
```

8. What will be the value of the BASH variable `V15` after the execution of this statement? Assume that the value of `TEMP` is 8.

```
V15='expr $TEMP + 2'
```

9. What will be the value of the BASH variable `V16` after the execution of the following statement? Again assume that the value of `TEMP` is 8.

```
V16="expr $TEMP + 2"
```

10. Write a BASH program that accepts input only from the command line.

If the user enters `q17 -Math`, the program prints the name of all Math majors.

If the user enters `q17 -avg`, the program prints the average grade for the first exam.

If the user enters `q17` followed by any other option, the program prints "Not an option".

If the user enters just `q17`, the program prints "No options".

11. Write a script that will ask the user to input a College. The menu of choices includes Saint Rose, RPI, Skidmore, and Exit. If the user chooses Saint Rose, the program prints "In Albany.", and displays the menu again. If the user chooses RPI, the program prints "In Troy.", and displays the menu again. If the user chooses Skidmore, the program prints "In Saratoga.", and displays the menu again. If the user chooses Exit, the program stops. If the user enters anything else, the program prints "Not an option" and displays the menu again.