## **CSCI 2500: Computer Organization**

Lab 2 Exercises Name(s):

1. Assume you have the following files in your current directory:

```
feb96 jan12.02
jan19.02 jan26.02
jan5.02 jan95
jan96 jan97
jan98 mar98
memo1 memo10
memo2 memo2.sv
```

What would be the output from the following commands?

```
echo * echo m[a-df-z]*

echo jan* echo ?????

echo jan?? feb?? mar?? echo *[!0-9]

echo [A-Z]* echo *.*

echo *02 echo [fjm][ae][bnr]*
```

2. Describe the outputs of the following commands:

```
ls | wc -l
ls *.c | wc -l
rm ???
mv progs/* /users/steve/backup
rm *.o
cd; pwd
plotdata 2>errors &
```

3. What will be matched by the following regular expressions?

4. Describe the output of the following commands?

```
cat names.txt | grep 'mary'

cat names.txt | grep '^mary'

grep '[Uu]nix' ch?/*

grep -i -n Mike ch[1-3]/sect1

cut -f1 -d',' data.csv

date | cut -c12-16

paste -d';' names.txt phone_nums.txt

sort -r names | uniq -d

tr '{}' '()' < eqn_file.txt > new_eqn_file.txt
```

- 5. Download the file 'lab\_2\_file' from LMS (Labs → Lab 2 (9/9/2015)) and copy it into your Unix environment. Examine the contents of the file using the Unix cat command.
  - (a) Use the Unix octal dump (od) program get the contents of this file in hexadecimal and then convert the hex into binary (Hint: make sure to include the following od command line option: -t x1). Use the man page for od to check all the output options.
  - (b) Using the binary data obtained in (a), convert each byte into a decimal number.
  - (c) Compare the decimal unsigned results from (b) to the ASCII table. Is this a valid ASCII file?