Perl Exercises

Log in to RedHat Linux 6 using the following command from the DOS prompt (or use the Exceed Telnet from the Windows 95 menu system):

```
telnet   149.153.103.5
```

Use the vi editor to create a file called **data.txt** with the following contents:

```
the quick brown fox jumped over the lazy dog, or was it the Sun?
The Sea!  The Sea!
978047195632 x 21 = a really big number!!
this is a whole load of kisses: xxxxxxxxxx
Apple is a computer company, as is Sun, and Motorola
ApplSunotorola
```

View the **data.txt** file on the screen to check that you entered it correctly using:

```
cat  data.txt
```

Use vi to create the following script, and call it **learning.pl**. Note: the lines numbers are for illustration purposes only.

```
1               #!/usr/bin/perl

2               while ( <> )
3               {
4                   print;
5               }
```

Use Perl to check the syntax of this new script:

```
perl  -c  learning.pl
```

Use the `ls` command to check the execution status of **learning.pl**:

```
ls  -l  learning.pl
```

Look at the start of the line describing the file. It should read: `-rw-rw-r--`
These are the Linux "permission bits", and they currently state that the file can only be read from (r) and written to (w). Use this command to turn the file into an executable:

```
chmod   755   learning.pl
```

The permission bits should now read: `-rwxr-xr-x`. (use `ls -l` again). The file can now be executed, so - *go ahead!* - and give it a go:

```
learning.pl   data.txt
```

should print out the contents of the **data.txt** file. We can print out more than one file using:

```
learning. pl   /etc/passwd    data.txt
```

1. Change line 4 of the script to read:

   ```
   print if /jumped/;
   ```

   Then re-run the script. What happens?

2. Change line 4 of the script to read:

   ```
   print if /Apple|Sun|Motorola/;
   ```

   Then re-run the script. What happens?

3. Change line 4 of the script to read:

   ```
   print if /Appl(e|S)u(n|M)otorola/;
   ```

   Then re-run the script. What happens?

4. Change line 4 of the script to read:

   ```
   print if /The Sea!*/;
   ```

   Then re-run the script. What happens?

5. Change line 4 of the script to read:

   ```
   print if /(The Sea!)*/;
   ```

   Then re-run the script. What happens?

6. Change line 4 of the script to read:

   ```
   print if /471/;
   ```

   Then re-run the script. What happens?

7. Change line 4 of the script to read:

   ```
   print if /x*/;
   ```

   Then re-run the script. What happens?

8. Change line 4 of the script to read:

   ```
   print if /Sean?/;
   ```

   Then re-run the script. What happens?