

1) Explore the shift functions available in two of the languages: Matlab, C and/or Fortran 2003. Write small programs that demonstrate their actions on signed and unsigned integers.

2) Run the following pieces of Matlab code, and explain their performance

```
x = 1; while 1+x > 1, x = x/2, pause(.02), end
```

```
x = 1; while x+x > x, x = 2*x, pause(.02), end
```

```
x = 1; while x+x > x, x = x/2, pause(.02), end
```

3) Problems 2 and 3 of Chapter 1 of Prof. Stewart's book.

4) Problems 9 and 10 of Chapter 2 of Prof. Stewart's book.