



**Fall Semester 2021-2022**

## **ECE5030 - Scripting Languages for VLSI Design Automation**

### **Assignment I**

1. Write a Perl script to find the average of  $n$  numbers. The numbers are passed to the perl script as command line arguments while executing the script.
2. Find and fix the bugs in the following program. Execute the correct program and show the output.

```
#!/usr/local/bin/perl

$num = <STDIN>;

chop ($num);

$x = "";

$x += "hello";

if ($x != "goodbye" | $x == "farewell") {

$result = $num eq 0 ? 43;
```

3. Write a program that prompts the user for a filename, then reads that file in and displays the contents backwards, line by line, and character-by-character on each line. You can do this with scalars, but an array is much easier to work with. If the original file is:

```
abcdef
ghijkl
```

the output will be:

```
lkjihg
fedcba.
```

4. Create an array that holds the numbers from 1 to 10. Create a slice of that list with a different name that holds all the odd numbers, and another slice of that sublist that holds all the primes. Write a program that displays the list elements in each of the three lists. Also, display the size of all three lists.