

**Name:** \_\_\_\_\_  
please type or print your name

## EE-WEB Exam No. 3 (100pts.)

### General Remarks

Do not use back of the pages for answers. The back side of this test will not be graded. Attach more pages if necessary. Open books, open handwritten and printed notes. Sorry no computers.

**DL: \_\_\_ ERR: \_\_\_ PTS: \_\_\_ WTL: \_\_\_**

### Problem 1 – Intro to PERL (10pts.)

In PERL 5 a Scalar Variable can hold various data based on the assigned value. What is stored in each of the following variables? (Note that the variables were not created using *autovivication*.) Please circle the right answer.

my \$a= 1;                    Answer: integer   floating point   character   string   pointer

my \$b= 1.0;                Answer: integer   floating point   character   string   pointer

my \$c= 1.1;                Answer: integer   floating point   character   string   pointer

my \$d= "1.1";             Answer: integer   floating point   character   string   pointer

my \$e= `1.1`;             Answer: integer   floating point   character   string   pointer

### Problem 1B – Intro to PERL (10pts.)

What is **Variable Extrapolation** in PERL? Could you provide a short example of code that demonstrates that feature by interpolating a scalar variable?

### Problem 2 – PERL Syntax (20pts.)

What is the fastest and most convenient way to find out the size of an array without destroying it or going through all of its value? (There are at least two very good answers and a few more poor ones.) Answer by completing the following program:

```
my $line=<STDIN>;
chomp($line);
my @a = split ( " ", $line);
```

```
print STDOUT "There was " . _____ . " data items entered into array a.";
```

**Problem 3 – Homework Related (20pts.)**

How can one check if **the file of a name provided in \$file exists, is a file (not a folder or link), can be overwritten (not read only) and has non-zero size** at the same time. Please answer by completing the provided code.

```
my $file=<STDIN>;
chomp($file);

if ( _____ )
{
    print $file." exists as an ordinary file that can be modified, "
        . "and is not empty.";
}
```

**Problem 4 – CGI Script Setup (20pts.)**

Please indicate the correct file permissions so that a counter CGI script discussed in class, or your most recent homework CGI script, **would work correctly**. Assume that the CGI script file name is prog.pl and the data file name that is accessed for both reading and writing is data.txt. Answer by completing the bolded portion of the listing.

```
$pwd
/home/olekmali
$ls -a -l
drwx--x--x   6 olekmali staff      1024 Nov 24 11:47 ./
dr-xr-xr-x  16 root      root           16 Dec  5 00:20 ../
drwxr-xr-x  13 olekmali staff     1536 Dec  1 12:48 public_html/
$cd public_html/
$ls -a -l
total 420
drwxr-xr-x  14 olekmali staff     1536 Dec  5 00:25 ./
drwx--x--x   6 olekmali staff     1024 Nov 24 11:47 ../
-rw-r--r--   1 olekmali staff       195 Nov 20  2002 .htaccess
d_____   2 olekmali staff       512 Dec  5 00:25 cgi/
$cd cgi/
$pwd
/home/olekmali/public_html/cgi
$ls -a -l
sameasabove  2 olekmali staff       512 Dec  5 00:34 ./
drwxr-xr-x  14 olekmali staff     1536 Dec  5 00:25 ../
-_____   1 olekmali staff         66 Dec  5 00:33 .htaccess
-_____   1 olekmali staff          2 Dec  5 00:35 data.txt
-_____   1 olekmali staff        210 Dec  5 00:34 prog.pl
$
```

**Problem 5 – PHP/ASP Technology (20pts.)**

What are the sequences of characters that are used in **ASP** (Active Server Pages) to indicate the portion of code embedded in HTML that is not HTML but a scripting language to be executed on the server side? **Please provide the “begin tag” and the “end tag.”**