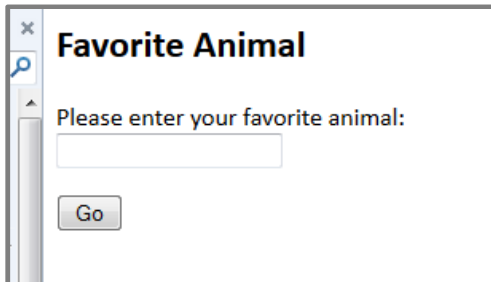


## SOEN287 – PHP In-Class Problem Solving Session

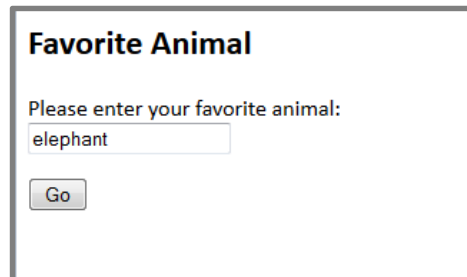
### Question 1: Simple form with PHP

Here are a few screen captures to illustrate how you code should work



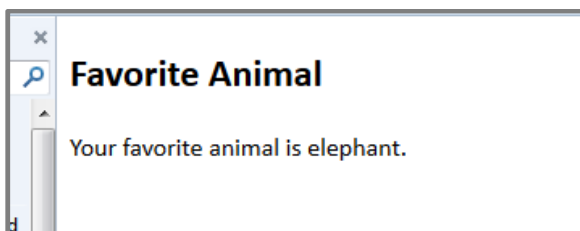
A web browser window titled "Favorite Animal" showing a form with the text "Please enter your favorite animal:" followed by an empty text input field and a "Go" button below it.

Fig. 1: Starting screen



A web browser window titled "Favorite Animal" showing the same form as Fig. 1, but the text input field now contains the word "elephant". The "Go" button is still present below the field.

Fig. 2: User enters animal and clicks on go

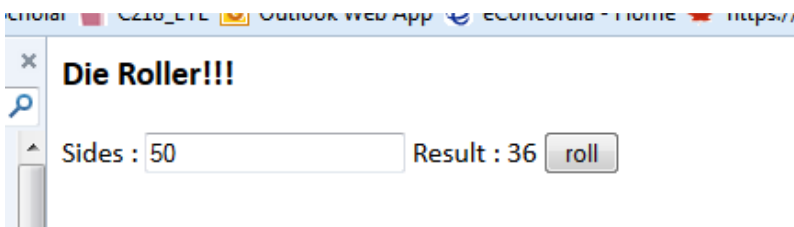


A web browser window titled "Favorite Animal" showing a response message: "Your favorite animal is elephant." The form fields and buttons are no longer visible.

Fig. 3: Response screen, where user's input is echoed

Write the necessary code to produce the above code: one set of instructions for the form, one for the response.

### Question 2: Die Roller



A web browser window titled "Die Roller!!!" showing a form with the text "Sides : " followed by a text input field containing the number "50". To the right of the input field is the text "Result : 36" and a "roll" button.

Write the PHP code to generate the above form, in which the user enters the sides of his/her die. Each time the user clicks on the roll button a random number between 1 and the number of sides is generated.

Note: `rand(n1, n2)` will generate a number between n1 and n2 inclusive.

#### What to do:

Write a PHP file which contains:

- a function `roll()` which given the number of sides will generate a number between 1 and the number of sides.

- b) the necessary code to produce the form in the illustration above, accept the user input and when the roll button is 'pressed' will display the result of the roll in the Result field.

### **Question 3:** Mad Lib

"Mad Libs is a word game where the player takes a short story and replace key types of words with different words of the same type to create a new, sillier version of the same story."

Given the starting code

```
<?php
$text = "I was _VERB_ing in the _PLACE_ when I found a _NOUN_. I _VERB_ed
in, and _VERB_ed too much _NOUN_. I had to go to the _PLACE_.";

echo "Original String: ", "<br />",$text, "<br />", "<br />";
$verbs = explode("\n", file_get_contents("words.verbs.txt"));
$places = explode("\n", file_get_contents("words.places.txt"));
$nouns = explode("\n", file_get_contents("words.nouns.txt"));
```

Where explode takes the content of the file in between the () and breaks it into an array. The "\n" specifies where to break the string.

Write a while loop, that will find every occurrence of \_VERB\_, \_PLACE\_ and \_NOUN\_ in the original string and replace it by a word from the appropriate array. To pick a word, you can either generate a random number from 0 to the size of the array, or use the shuffle() method for arrays which shuffles the content of an array, or ...

Here is a sample run:

```
Original String:
I was _VERB_ing in the _PLACE_ when I found a _NOUN_. I _VERB_ed in, and _VERB_ed too much
_NOUN_. I had to go to the _PLACE_.

I was bumping in the _PLACE_ when I found a _NOUN_. I _VERB_ed in, and _VERB_ed too much
_NOUN_. I had to go to the _PLACE_.
I was bumping in the bank when I found a _NOUN_. I _VERB_ed in, and _VERB_ed too much _NOUN_.
I had to go to the _PLACE_.
I was bumping in the bank when I found a airfield. I _VERB_ed in, and _VERB_ed too much
_NOUN_. I had to go to the _PLACE_.
I was bumping in the bank when I found a airfield. I rolled in, and _VERB_ed too much _NOUN_.
I had to go to the _PLACE_.
I was bumping in the bank when I found a airfield. I rolled in, and hideed too much _NOUN_. I
had to go to the _PLACE_.
I was bumping in the bank when I found a airfield. I rolled in, and hideed too much dares. I
had to go to the _PLACE_.
I was bumping in the bank when I found a airfield. I rolled in, and hideed too much dares. I
had to go to the bank.

Final String: I was bumping in the bank when I found a airfield. I rolled in, and hideed too
much dares. I had to go to the bank.
```