

1. Write a simple calculator with HTML forms and PHP that can perform some basic functions:

- a. Add, subtract, multiply and divide two numbers.
- b. Power, Inverse a number.

Get numbers from user input (text element).

2. Write a user registration form that requires following information:

- a. First name (string must be 2-30 characters in length).
- b. Last name (string must be 2-20 characters in length).
- c. Email (must be a valid email address format: <sth>@<sth>.<sth>).
- d. Password (string must be 6-20 characters in length, use password element).
- e. Birthday (day, month, year: use drop-down list element).
- f. Gender (use radio element).
- g. Country (use drop-down list element, contain some options: Vietnam, Australia, United States, India, Other).
- h. About (textarea, limit 10000 characters).
- i. Submit and Reset button.

Using PHP to validate all form fields as described. If there are any errors then show messages for users to correct, else show successful message and all user input data.