



Polytechnic University of the Philippines  
College of Engineering  
Computer Engineering Department



CMPE 40062

Computer Engineering Technology 5

**HANDS-ON LABORATORY  
ACTIVITIES**

Submitted by:

**Buenaventura, Celine Joie V.  
BSCPE 3-1**

Submitted to:

**Prof. Julian Lorico**

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## Homepage



## Static Webpage (Pup Mission, Vision, Goals, and Objectives)



**POLYTECHNIC UNIVERSITY OF THE PHILIPPINES**  
Bachelor of Science in Computer Engineering

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**Mission**  
It is committed to produce competent engineers who will serve as catalyst for sustainable growth and development in national and international levels.

**Vision**  
The College of Engineering envisions itself to be a center of excellence in engineering education.

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**Goals**

- Provide quality education through instruction, advance research, and extension services;
- Provide world class professionals as potential industry leaders and job provides;
- Develop and produce facilities through the use of adapted technology and indigenous material; and
- Maintain, upgrade, or improve facilities through the application of engineering technology.

**Objectives**

- To strengthen the BSCpE program to make it consistent with global trends;
- To develop BSCpE faculty as competent mentors and quality researchers through advances studies and other phases of continuing professional education;
- To develop the critical thinking and communication skills of BSCpE students through research activities and extension services;
- To produce BSCoE graduates with appropriate and up to date knowledge, technical skills, and desirable work attitude and moral values through enhance teaching-learning processes;
- To create a conducive teaching and learning atmosphere by using multimedia facilities on top traditional methods;
- To establish network with education intitutions, industries, GO's, and NGO's and local international agencies which could serve as: funding sources and/or research partners/sponsors, sources of new technology, centers for faculty, and student exchange program and on-the-job training, grantees of scholarship/additional facilities; and
- To conduct continuous action to improve/upgrade laboratory and other faciltie by using innovative and indigenous materials and technology.

## Hands-On Exercises

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

An HTML document with JavaScript code that permits the user to input a number for 0 to 9 and will change the color of the background as listed below:

Number	Color
0	Black
1	Blue
2	Green
3	Cyan
4	Red
5	Magenta
6	Gray
7	Brown
8	White
9	Yellow

Enter the number of the color you want

Try it

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

XYZ Company gives an additional mid-year bonus to its employees every year. The amount depends on the number of years of service as enumerated below:

Years of Service	Amount of Mid-Year Bonus
1 - 5 years	50% of monthly salary
6 - 15 years	75% of monthly salary
16 and above	100% of monthly salary

Number of year of service

Amount of Monthly Salary

Check my Mid-year Bonus

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

A JavaScript application that will read in a number of hours, minutes, and seconds. The application will convert the inputs to the equivalent number of seconds only.

Number of hour/s:

Number of minute/s:

Number of second/s:

Calculate!

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

A JavaScript application that will display the age of the user in terms of number of years and months after entering the month, the day, and the year when the user was born.

Month

Day

Year

Calculate My Age

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

A JavaScript application that will allow the user to enter telephone number and postal code. The application should test if the telephone number and postal code in Philippine setting is valid in terms of format.

Telephone Number(starts with "09" or "639", and must be 11-digit number)

Postal Code(must be 4-digit number)

Verify it now!

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

A JavaScript application that will permit the user to input credit cardholder's name, cardholder's number, type of credit card (VISA/Master/JCB) and expiry date (month and year). The application should test if the information entered for the credit card number and expiry date are valid in terms of format.

Last Name

First Name

Middle Name

Type of Credit Card (VISA/MASTERCARD/JCB)

Card Number (must be 16 digits)

Month

Year

Check the validity

Exercise 1

Exercise 2

Exercise 3

Exercise 4

Exercise 5

Exercise 6

Return to main menu

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Return to main menu

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Last Name

First Name

Middle Name

Type of Credit Card (VISA/MASTERCARD/JCB)

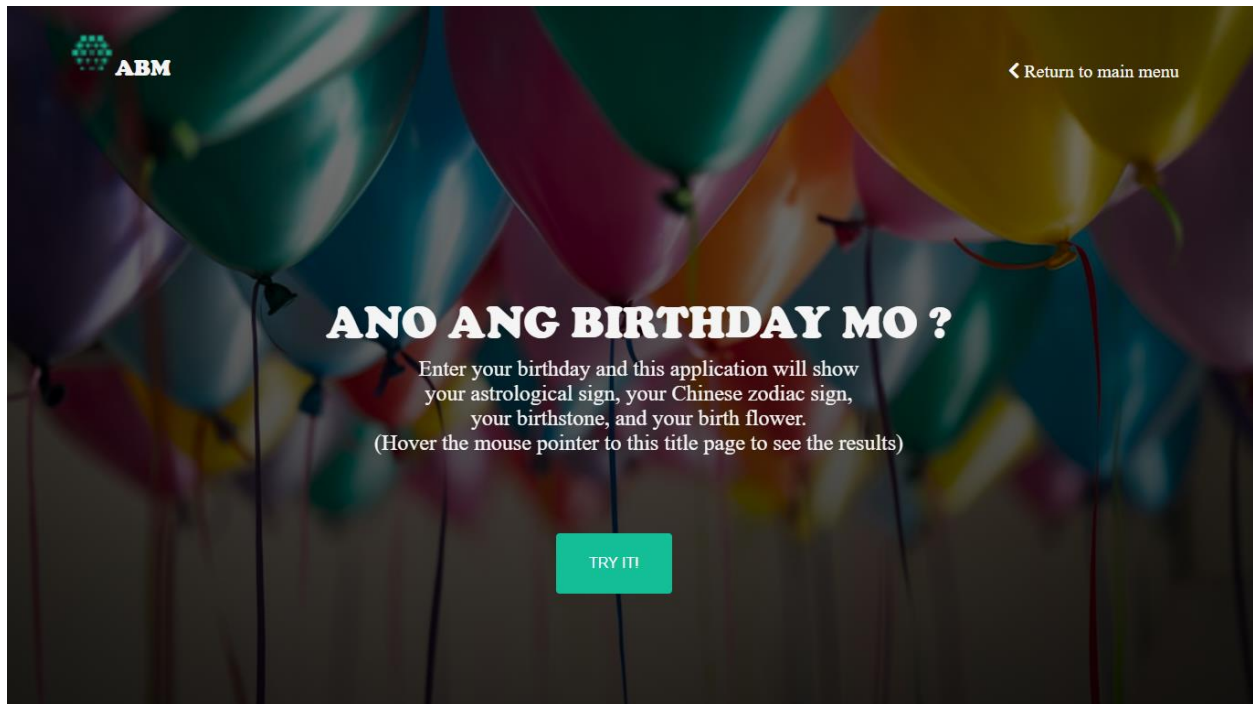
Card Number (must be 16 digits)

Month

Year

Check the validity

## Birth Signs



## Registration Form

The screenshot shows a web application interface with a teal background. In the top left corner is a link that says '< Return to main menu'. The main heading is 'REGISTRATION FORM' in bold, orange letters. Below the heading are several input fields: 'Name of School', 'Course' (a dropdown menu with 'Select a course' selected), 'First Name', 'Last Name', 'Middle Name', 'Gender' (with radio buttons for 'Male', 'Female', and 'Prefer not to say'), 'Age', 'Birthday' (with dropdown menus for 'Month', 'Day', and 'Year'), 'Email Address', 'Phone Number', 'Address Line 1', 'Address Line 2', and 'Postal Code'. At the bottom are two orange buttons: 'Register' and 'Reset'.