



**LABORATORY ACTIVITY #5**  
**ELEC1: COMPUTATIONAL SCIENCE**

Date: NOV. 21, 2024

Class/Section: BSCS - C2022

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**GENERAL INSTRUCTIONS:** Read and understand the Machine Problem and give the needed requirements. Using the Flowgorithm create a reservation program with the following requirements:

- 1. Upon Opening the Application. The program must ask password. Set to 101011. There are 3 tries only after that the program will quit.
- 2. Considering correct password is inputted a welcome screen/prompt will appear.

**WELCOME TO HAYAHAY CLUB**

**Main Menu**

R = Reservation  
C = Check Availability  
S = Transaction Summary  
Q = Quit

Enter choice:

Note: Invalid choice will return to the main menu.

- 3. Program must ask for the following:
  - a. Name of the customer
  - b. Month of stay/reservation (in number e.g. 1 = January)
  - c. Number of days (stay)
  - d. Number of adults
  - e. Number of child
  - f. Destination/Place (e.g. S – Siargao/Local)
- 4. The program should accept month of stay/reservation and verify if it is Lean, High, Peak or Super Peak season, using the table below:

**Season Inclusive Months**

Lean February, June, July  
High August to October  
Peak March to May  
Super Peak November to January

- 5. The program should also ask for the destination and it will automatically identify if it is Local or International.  
Destination: (Example: G = Germany/International)

Local	International
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(S) Siargao (B) Boracay (E) El Nido Palawan	(J) Japan (U) USA (G) Germany
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6. The program should have a room suggestion depending on the number of guests including the bed policy. But can also select whatever room he/she wants to reserve. (Proper Validation) the following inputs must be accepted: (S) – Standard, (D) – Deluxe, (Q) -Quadruple, (F) – Family and (U) - Suite

For local destination:

Room Type	Capacity	Available Rooms	Rate			
			Lean	High	Peak	Super Peak
Standard	1 guest w/ 1 extra bed	5	₱ 2,000.00	₱ 4,000.00	₱ 6,000.00	₱ 9,000.00
Deluxe	2 guests w/ 1 extra bed	4	₱ 3,000.00	₱ 5,000.00	₱ 8,000.00	₱ 12,000.00
Quadruple	4 guests w/ 1 extra bed	5	₱ 4,000.00	₱ 7,000.00	₱ 10,000.00	₱ 15,000.00
Family	6 guests w/ 1 extra bed	3	₱ 5,000.00	₱ 9,000.00	₱ 12,000.00	₱ 18,000.00
Suite	4 guests	2	₱ 6,000.00	₱ 11,000.00	₱ 14,000.00	₱ 21,000.00

  

International Destination			Rate			
Room Type	Capacity	Available Rooms	Lean	High	Peak	Super Peak
Standard	1 guest w/ 1 extra bed	5	₱ 2,500.00	₱ 4,500.00	₱ 6,500.00	₱ 10,000.00
Deluxe	2 guests w/ 1 extra bed	4	₱ 5,000.00	₱ 7,000.00	₱ 9,000.00	₱ 13,000.00
Quadruple	4 guests w/ 1 extra bed	5	₱ 7,500.00	₱ 9,500.00	₱ 11,500.00	₱ 16,000.00
Family	6 guests w/ 1 extra bed	3	₱ 10,000.00	₱ 12,000.00	₱ 14,000.00	₱ 19,000.00
Suite	4 guests	2	₱ 12,500.00	₱ 14,500.00	₱ 16,500.00	₱ 22,000.00

7. The program should ask if the person reserving would like to avail themselves of amenities/services.

**Amenities/Services Fees**

- \*Swimming Pool Php 300.00/per day
- \*Gym Php 500.00/per day
- \*Free for those that stays on SUITE for 2 guests only.
- \*When availing amenities/services a 20% discount must be applied for a PWD or Senior Citizen.

8. The program should display a booking summary and accepts payment. After the payment, it should display the booking summary with the following details:

- a. Name of the person:
- b. Number of children and also adults:
- c. Accommodation – rooms availed, # of person, destination, total price, total add-on/amenities availed, payment and change if ever. (Proper validation must be present)

9. **Option C** – Check Availability: Shows the room availability or count based on the table.

10. **Option S** – Transaction Summary: The program must process any number of transaction and will display summary at the end Total Transaction(count) and Total Sales.

**Requirements:**

- 1. Filename: SURNAME1\_SURNAME2\_SURNAME3\_LA5.fprg (to be submitted in the GDdrive link that will be provided)
- 2. To be submitted in hard copy next meeting (this page with names, flowchart and the sample output screenshot)

**SCORING RUBRIC**

(Encircle the score that reflects the actual accomplishment)

Criteria	Rating Scale	Comment
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A. Completeness and Correctness of Flowchart	10 – Perfect 4 – Running but has serious problems (on computation and validation) 1 – Not Running	
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Checked by: \_\_\_\_\_