FEU INSTITUTE OF TECHNOLOGY

INTEGRATIVE PROGRAMMING AND TECHNOLOGIES

ACTIVITY 06: OOP AND EXCEPTION

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ITEM MANAGEMENT APPLICATION

- **MAIN MENU**

```
========================================
======= ITEM MANAGEMENT SYSTEM ========
            [1]. Add Item
            [2]. View Items
            [3]. Update Item
            [4]. Delete Item
            [0]. Exit
========================================
Enter your choice:
```

  - o *Invalid Menu Choice*

```
========================================
======= ITEM MANAGEMENT SYSTEM ========
            [1]. Add Item
            [2]. View Items
            [3]. Update Item
            [4]. Delete Item
            [0]. Exit
========================================
Enter your choice: 9
----------------------------------------
Invalid choice. Try Again!
----------------------------------------
```

- **ADD ITEM**

```
================================================
Enter your choice: 1
------------------------------------------------
--------------- ADD ITEM ---------------
Enter Item ID (6 digits): 202312
Enter Item Name: Office Chair
Enter Item Description: Ergonomic
Enter Item Price: ₱ 567.90
------------------------------------------------
Item ID 202312 is Added Successfully.
------------------------------------------------
```

- o *Invalid Item ID (ID must be 6-digits)*

```
================================================
Enter your choice: 1
------------------------------------------------
--------------- ADD ITEM ---------------
Enter Item ID (6 digits): 1234
------------------------------------------------
Error: Item ID must be a 6-digit number.
------------------------------------------------
================================================
```

- o *Item ID already exist (Error)*

```
================================================
Enter your choice: 1
------------------------------------------------
--------------- ADD ITEM ---------------
Enter Item ID (6 digits): 202312
------------------------------------------------
Error: Item ID already exists.
------------------------------------------------
```

○ *Empty Name Input (Error)*

```
=======================================
Enter your choice: 1
---------------------------------------
-------------- ADD ITEM --------------
Enter Item ID (6 digits): 100231
Enter Item Name:
---------------------------------------
Error: Item Name cannot be empty.
---------------------------------------
```

○ *Empty Description Input (Error)*

```
=======================================
Enter your choice: 1
---------------------------------------
-------------- ADD ITEM --------------
Enter Item ID (6 digits): 202312
Enter Item Name: Laptop
Enter Item Description:
---------------------------------------
Error: No Description Entered.
---------------------------------------
```

○ *Invalid Price Input (must be greater than 0 / positive no.)*

```
=======================================
Enter your choice: 1
---------------------------------------
-------------- ADD ITEM --------------
Enter Item ID (6 digits): 100921
Enter Item Name: Wireless Mouse
Enter Item Description: Bluetooth
Enter Item Price: ₱ -1.89
---------------------------------------
Error: Price must be more than 0.
---------------------------------------
```

- **VIEW ITEMS**

```
============================================
Enter your choice: 2
--------------------------------------------

------------ LIST OF ITEMS -------------
Product ID: 202312
Product Name: Office Chair
Product Description: Ergonomic
Product Price: ₱567.90
--------------------------------------------

Product ID: 200019
Product Name: Laptop
Product Description: 16GB RAM
Product Price: ₱1200.00

--------------------------------------------
```

  - *If no items found in the system*

```
======== ITEM MANAGEMENT SYSTEM ========
           [1]. Add Item
           [2]. View Items
           [3]. Update Item
           [4]. Delete Item
           [0]. Exit
============================================
Enter your choice: 2
--------------------------------------------

--------------------------------------------
No items available. Add one first.
--------------------------------------------
```

- **UPDATE ITEMS**

```
=================================
Enter your choice: 3
---------------------------------
------------ LIST OF ITEMS ------------
Product ID: 202312
Product Name: Office Chair
Product Description: Ergonomic
Product Price: ₱567.90
---------------------------------
Product ID: 200019
Product Name: Laptop
Product Description: 16GB RAM
Product Price: ₱1200.00
---------------------------------
------------ UPDATE ITEM ------------
Enter Item ID to update: 202312
=================================
       What do you want to update?
=================================
          [1] Item Name
          [2] Item Description
          [3] Item Price
          [0] Go Back
---------------------------------
Enter your choice: ▌
```

Provided a copy of the list of items and presented the user with a menu to choose what to update.

- *Option 1: Item Name*

```
-------------------------------------
------------ UPDATE ITEM -------------
Enter Item ID to update: 202312

=====================================
      What do you want to update?
=====================================
          [1] Item Name
          [2] Item Description
          [3] Item Price
          [0] Go Back
-------------------------------------
Enter your choice: 1
Enter new Item Name: Gaming Chair
-------------------------------------
Item Name Updated Successfully!
-------------------------------------
```

- o *Option 2: Item Description*

```
=====================================
       What do you want to update?
=====================================
             [1] Item Name
             [2] Item Description
             [3] Item Price
             [0] Go Back
-------------------------------------
Enter your choice: 2
Enter new Item Description: Adjustable Height
-------------------------------------
Item Description Updated Successfully!
-------------------------------------
```

- o *Option 3: Item Price*

```
------------- UPDATE ITEM --------------
Enter Item ID to update: 200019
=====================================
       What do you want to update?
=====================================
             [1] Item Name
             [2] Item Description
             [3] Item Price
             [0] Go Back
-------------------------------------
Enter your choice: 3
Enter new Item Price: ₱ 10600
-------------------------------------
Item Price Updated Successfully!
-------------------------------------
```

o *Option 0: Back to Main Menu (Go Back)*

```
=======================================
       What do you want to update?
=======================================
              [1] Item Name
              [2] Item Description
              [3] Item Price
              [0] Go Back
---------------------------------------
Enter your choice: 0
=======================================
======== ITEM MANAGEMENT SYSTEM ========
              [1]. Add Item
              [2]. View Items
              [3]. Update Item
              [4]. Delete Item
              [0]. Exit
=======================================
Enter your choice: █
```

o *Verify all updated details:*

```
=======================================
Enter your choice: 2
---------------------------------------
------------ LIST OF ITEMS ------------
Product ID: 202312
Product Name: Gaming Chair
Product Description: Adjustable Height
Product Price: ₱567.90
---------------------------------------
Product ID: 200019
Product Name: Laptop
Product Description: 16GB RAM
Product Price: ₱10600.00
---------------------------------------
```

- **DELETE ITEMS**

```
========================================
======== ITEM MANAGEMENT SYSTEM ========
               [1]. Add Item
               [2]. View Items
               [3]. Update Item
               [4]. Delete Item
               [0]. Exit
========================================
Enter your choice: 4
----------------------------------------
------------ LIST OF ITEMS -------------
Product ID: 202312
Product Name: Gaming Chair
Product Description: Adjustable Height
Product Price: ₱567.90
----------------------------------------
Product ID: 200019
Product Name: Laptop
Product Description: 16GB RAM
Product Price: ₱10600.00
----------------------------------------
Enter Item ID to delete: 202312
Proceed with item deletion? (yes/no): yes
----------------------------------------
Item ID 202312 is Deleted Successfully.
----------------------------------------
```

```
======== ITEM MANAGEMENT SYSTEM ========
               [1]. Add Item
               [2]. View Items
               [3]. Update Item
               [4]. Delete Item
               [0]. Exit
========================================
Enter your choice: 2
----------------------------------------
------------ LIST OF ITEMS -------------
Product ID: 200019
Product Name: Laptop
Product Description: 16GB RAM
Product Price: ₱10600.00
----------------------------------------
========================================
```

Verify Deletion

- **EXIT PROGRAM**

```
============================================
======== ITEM MANAGEMENT SYSTEM ========
               [1]. Add Item
               [2]. View Items
               [3]. Update Item
               [4]. Delete Item
               [0]. Exit
============================================
Enter your choice: 0
--------------------------------------------
Thank you. Have a nice day!
--------------------------------------------
```