

Lab-Act-1

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BSCS-3-B2

The screenshot shows the Visual Studio Code interface with the title bar "ADB FINAL NA TALAGA". The left sidebar lists files: "Hello World.py", "Variables.py", "Control Flow.py", "Functions.py", and "Arrays.py". The "Hello World.py" file is open, displaying the following code:

```
1 # Hello World Program
2 # Author: John Clyde A. Basig
3
4 # The following line prints the text "Hello, world!!!" to the console.
5 print("Hello, World!!!")
6
7 # The print function is used to display the text inside the double quotes.
8 # In this case, it prints the famous "Hello, World!!!" message.
9
```

The terminal at the bottom shows the command "python.exe" running the script, outputting "Hello, World!!!". The status bar indicates the file is 3.10.5 64-bit.

The screenshot shows the Visual Studio Code interface with the title bar "ADB FINAL NA TALAGA". The left sidebar lists files: "Hello World.py", "Variables.py", "Control Flow.py", "Functions.py", and "Arrays.py". The "Variables.py" file is open, displaying the following code:

```
1 # Variables and Data Types
2 # Author: John Clyde A. Basig
3
4 # Declare a variable 'x' and assign the value 10 to it.
5 x = 10
6
7 # Declare another variable 'y' and assign the value 10 to it.
8 y = 10
9
10 # Declare a variable 'name' and assign the string value "Clyde" to it.
11 name = "Clyde"
12
13 # Use the print function to display the sum of variables 'x' and 'y'.
14 print(x + y)
15 # Output: 20
16
17 # Use the print function to display the difference of variables 'x' and 'y'.
18 print(x - y)
19 # Output: 0
20
21 # Use the print function to concatenate the 'name' variable with the string "Basig" and display the result.
22 print(name + " " + "Basig")
23 # Output: Clyde Basig
24
```

The terminal at the bottom shows the command "python.exe" running the script, outputting "Clyde Basig". The status bar indicates the file is 3.10.5 64-bit.

The screenshot shows a code editor window titled "ADB FINAL NA TALAGA". The file "Control Flow.py" is open, containing the following code:

```
1 # Control Flow
2 # Author: John Clyde A. Basig
3
4 # Iterate over a range of numbers (1 to 10)
5 for num in range(1, 11):
6     # Check if the number is even
7     if num % 2 == 0:
8         print(f"{num} is an even number.")
9     # Check if the number is odd
10    else:
11        print(f"{num} is an odd number.")

12
```

The terminal below shows the output of running the script:

```
PS C:\xampp\htdocs\ADB FINAL NA TALAGA> & C:/Users/kent1/AppData/Local/Programs/Python/Python310/python.exe "c:/xampp/htdocs/ADB FINAL NA TALAGA/Control Flow.py"
1 is an odd number.
2 is an even number.
3 is an odd number.
4 is an even number.
5 is an odd number.
6 is an even number.
7 is an odd number.
8 is an even number.
9 is an odd number.
10 is an even number.

PS C:\xampp\htdocs\ADB FINAL NA TALAGA>
```

The screenshot shows a code editor window titled "ADB FINAL NA TALAGA". The file "Functions.py" is open, containing the following code:

```
1 # Functions
2 # Author: John Clyde A. Basig
3
4 # Define a function that takes parameters and returns a value
5 def add_numbers(x, y):
6     result = x + y
7     return result
8
9 # Call the function with different arguments
10 # Example 1
11 sum1 = add_numbers(5, 3)
12 print(f"Sum 1: {sum1}")
13
14 # Example 2
15 sum2 = add_numbers(10, -2)
16 print(f"Sum 2: {sum2}")
17
18 # Example 3
19 sum3 = add_numbers(7, 7)
20 print(f"Sum 3: {sum3}")

21
```

The terminal below shows the output of running the script:

```
PS C:\xampp\htdocs\ADB FINAL NA TALAGA> & C:/Users/kent1/AppData/Local/Programs/Python/Python310/python.exe "c:/xampp/htdocs/ADB FINAL NA TALAGA/Functions.py"
Sum 1: 8
Sum 2: 8
Sum 3: 14

PS C:\xampp\htdocs\ADB FINAL NA TALAGA>
```

The screenshot shows a code editor interface with a dark theme. At the top, there's a navigation bar with File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar labeled "ADB FINAL NA TALAGA". Below the navigation bar, there are tabs for Hello World.py, Variables.py, Control Flow.py, Functions.py, and Arrays.py (which is currently active). The main area contains the following Python code:

```
1 # Arrays/Lists
2 # Author: John Clyde A. Basig
3
4 # Create a list
5 my_list = [1, 2, 3, 4, 5]
6 print("Original List:", my_list)
7
8 # Adding elements to the list
9 my_list.append(6)
10 print("List after adding 6:", my_list)
11
12 # Modifying an element in the list
13 my_list[2] = 10
14 print("List after modifying element at index 2:", my_list)
15
16 # Removing an element from the list
17 removed_element = my_list.pop(3)
18 print(f"List after removing element at index 3 ({removed_element}):", my_list)
19
```

Below the code editor is a terminal window showing the output of the script:

```
PS C:\xampp\htdocs\ADB FINAL NA TALAGA> & C:/Users/kent1/AppData/Local/Programs/Python/Python310/python.exe "c:/xampp/htdocs/ADB FINAL NA TALAGA/Arrays.py"
Original List: [1, 2, 3, 4, 5]
List after adding 6: [1, 2, 3, 4, 5, 6]
List after modifying element at index 2: [1, 2, 10, 4, 5, 6]
List after removing element at index 3 (4): [1, 2, 10, 5, 6]
PS C:\xampp\htdocs\ADB FINAL NA TALAGA>
```

The terminal also displays a sidebar with icons for PowerShell, Python, and a selected Python entry. At the bottom of the terminal, there are status indicators and a date/time stamp: Ln 17, Col 33, Spaces:4, UTF-8, CRLF, Python 3.10.5 64-bit, 2:03 pm, 05/02/2024.