

LOGIC FORGE

BY: MOHAMMAD BILAL (CT-24275)

DEPARTMENT: BCIT (SECTION F)

EMAIL: m.bilal14241@gmail.com

CHALLANGE (1) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge1_product_array.py"
● 1,2,3,4
[24, 12, 8, 6]
● PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challenge1_product_array.py"
[-1,1,0,-3,3
[0, 0, 9, 0, 0]
○ PS C:\CIS Winter activity\week1>
```

CHALLANGE (2) OUTPUTs:

```
● PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange2_password_recovery_window.py"
log: ADOBECODEBANC
pattern: ABC
Output: BANC
● PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange2_password_recovery_window.py"
log: a
pattern: a
Output: a
● PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange2_password_recovery_window.py"
log: a
pattern: aa
Output:
○ PS C:\CIS Winter activity\week1>
```

CHALLANGE (3) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange3_balanced_performance_score.py"
● Input:
1,3
2
Output: 2.0
● PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange3_balanced_performance_score.py"
Input:
1,2
3,4
Output: 2.5
○ PS C:\CIS Winter activity\week1>
```

CHALLANGE (4) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange4_The_Deep_Storage_Inventory_Search.py"
● size n x n: 3
matrix:
1,5,9
10,11,13
12,13,15
k: 8

Output: 13
○ PS C:\CIS Winter activity\week1>
```

CHALLANGE (5) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange5_fix_the_broken_expression.py"
● Input: ()()
Output: ['()()', '(())']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange5_fix_the_broken_expression.py"
● Input: (a)()
Output: ['(a)()', '(a())']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange5_fix_the_broken_expression.py"
● Input: ()
Output: ['()']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange5_fix_the_broken_expression.py"
● Input: abc
Output: ['abc']

PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange5_fix_the_broken_expression.py"
● Input: ((((
Output: ['']

○ PS C:\CIS Winter activity\week1>
```

CHALLANGE (6) OUTPUTs:

```
PS C:\CIS Winter activity\week1> & C:/Users/Lenovo/AppData/Local/Programs/Python/Python312/python.exe "c:/CIS Winter activity/week1/challange6_tower_of_hanoi_algo.py"
● Enter the number of disks: 3
Disk 1 moved from A to C
Disk 2 moved from A to B
Disk 1 moved from C to B
Disk 3 moved from A to C
Disk 1 moved from B to A
Disk 2 moved from B to C
Disk 1 moved from A to C

○ PS C:\CIS Winter activity\week1>
```