CS 222

ASSIGNMENT 5: Modular arithmetic

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&&

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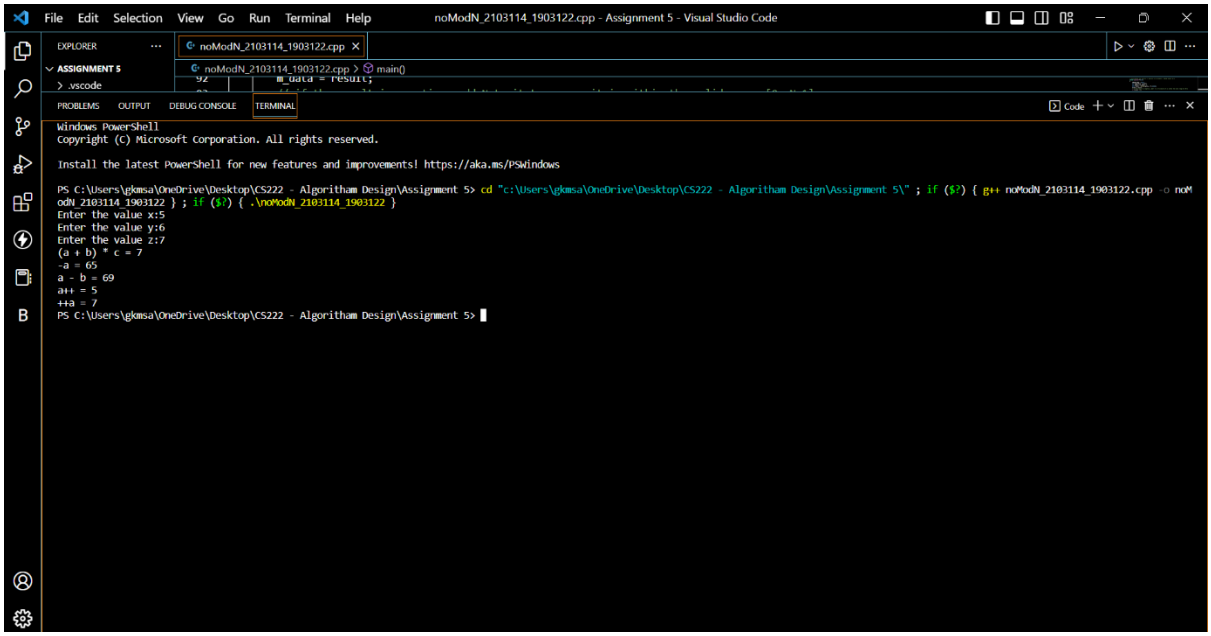
OUTPUT -


File Edit Selection View Go Run Terminal Help
noModN_2103114_1903122.cpp - Assignment 5 - Visual Studio Code
EXPLORER
noModN_2103114_1903122.cpp
ASSIGNMENT 5
.vscode
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Windows PowerShell
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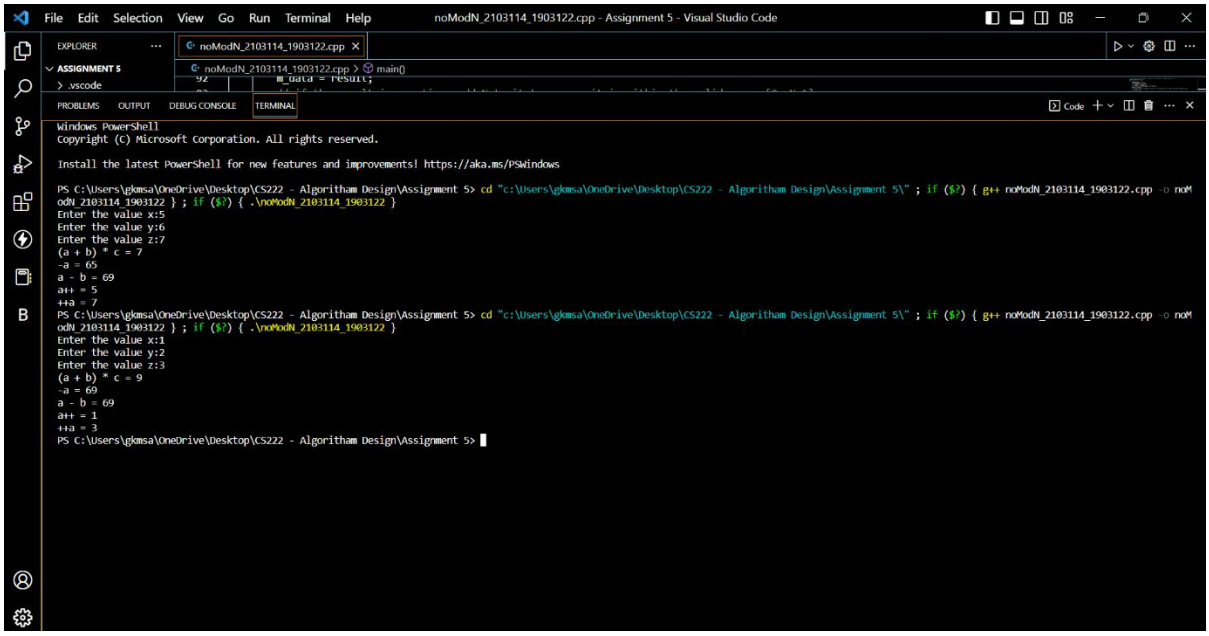
PS C:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5> cd "c:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5\" ; if ($?) { g++ noModN_2103114_1903122.cpp -o noM
odN_2103114_1903122 } ; if ($?) { .\noModN_2103114_1903122 }
Enter the value x:5
Enter the value y:6
Enter the value z:7
(a + b) * c = 7
-a = 65
a - b = 69
a++ = 5
++a = 7
PS C:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5>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Windows PowerShell
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PS C:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5> cd "c:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5\" ; if ($?) { g++ noModN_2103114_1903122.cpp -o noM
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++a = 7
PS C:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5> cd "c:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5\" ; if ($?) { g++ noModN_2103114_1903122.cpp -o noM
odN_2103114_1903122 } ; if ($?) { .\noModN_2103114_1903122 }
Enter the value x:1
Enter the value y:2
Enter the value z:3
(a + b) * c = 9
-a = 69
a - b = 69
a++ = 1
++a = 3
PS C:\Users\gkmsa\OneDrive\Desktop\CS222 - Algoritham Design\Assignment 5>

The time complexity of each function is O since we exclusively use constant time complexity arithmetic operators (1).

The default function Object() { [native code] }, noModN, takes no arguments: O (1). A function Object() { [native code] } for noModN with the input x: O (1). division operation: O (1), Operator plus overloaded: O (1), Operator overloaded: O (1), Operator for an overloaded unary: O (1) , Operator that is overloaded: O (1), The pre-increment ++ operator is overloaded: O (1), The post-increment ++ operator is overloaded: O (1), Overloaded (friend function) operator: O (1).

- THANK YOU -