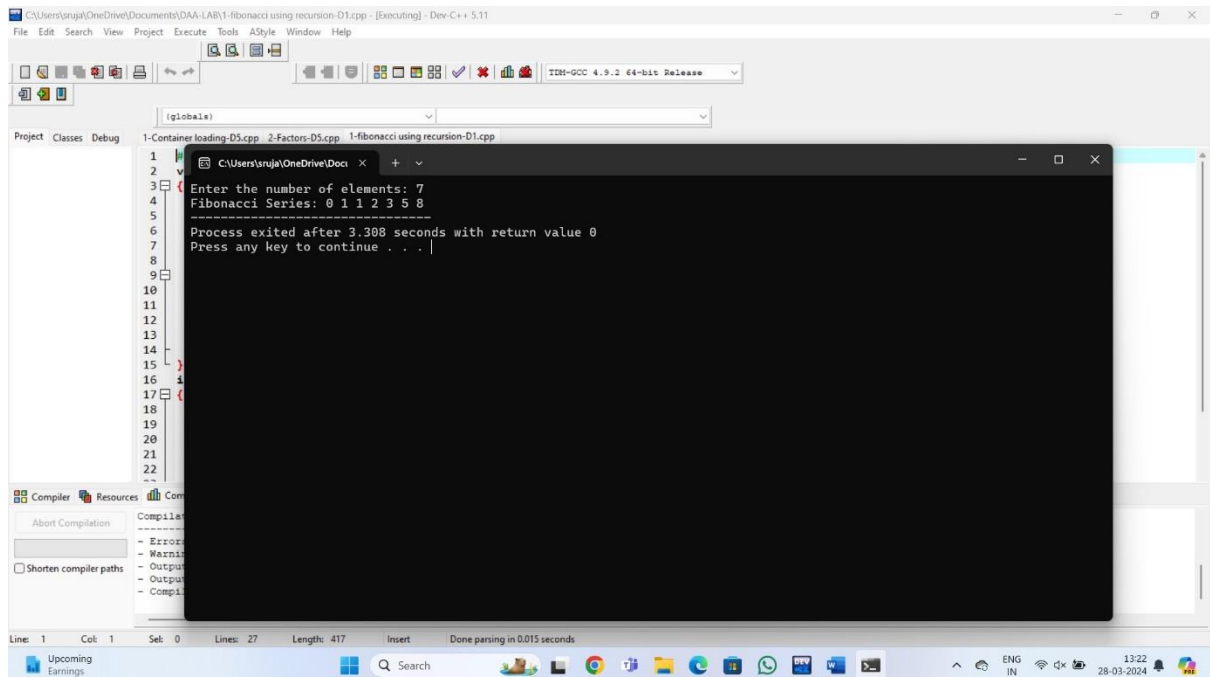


DAY-1

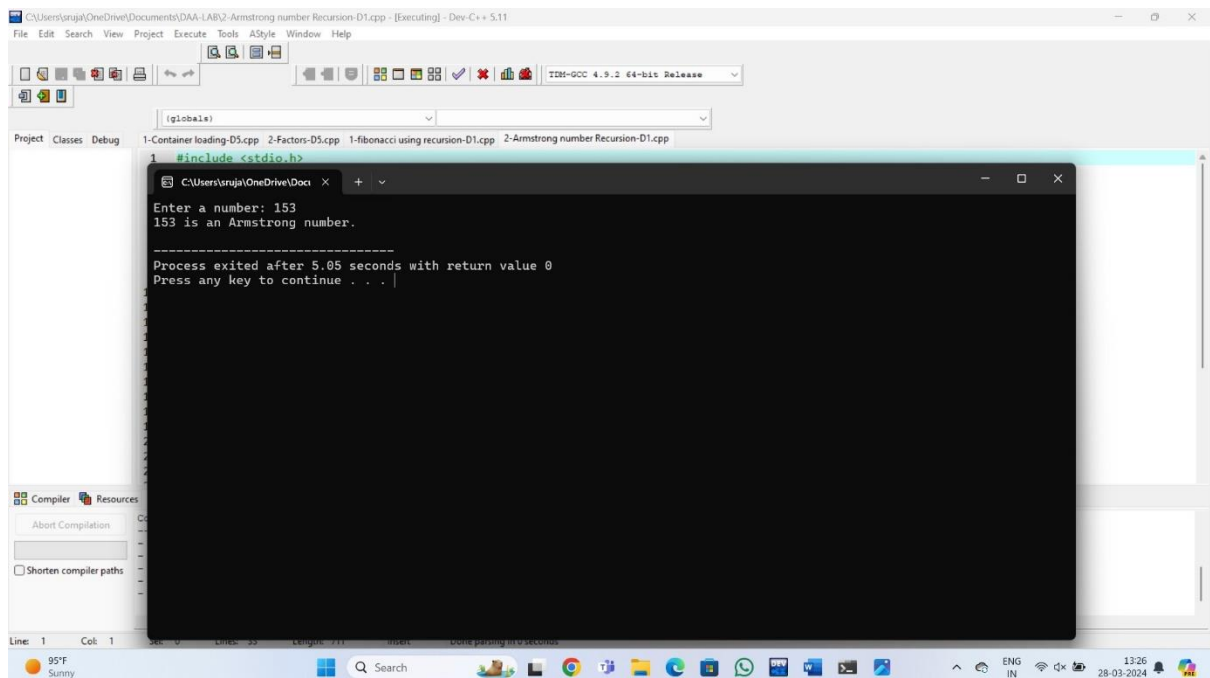
OUTPUT 1-



The screenshot shows the Dev-C++ IDE with a project named "1-fibonacci using recursion-D1.cpp". The console window displays the following output:

```
Enter the number of elements: 7
Fibonacci Series: 0 1 1 2 3 5 8
-----
Process exited after 3.388 seconds with return value 0
Press any key to continue . . .
```

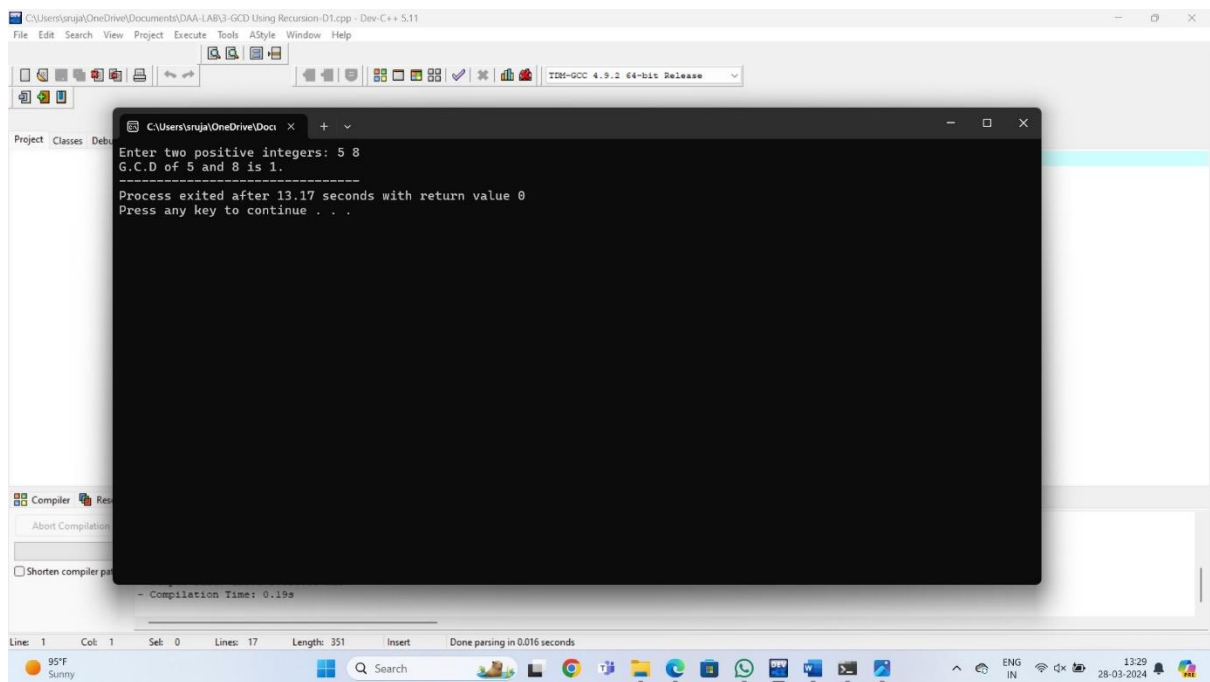
OUTPUT 2-



The screenshot shows the Dev-C++ IDE with a project named "1-Armstrong number Recursion-D1.cpp". The console window displays the following output:

```
Enter a number: 153
153 is an Armstrong number.
-----
Process exited after 5.05 seconds with return value 0
Press any key to continue . . .
```

OUTPUT 3-

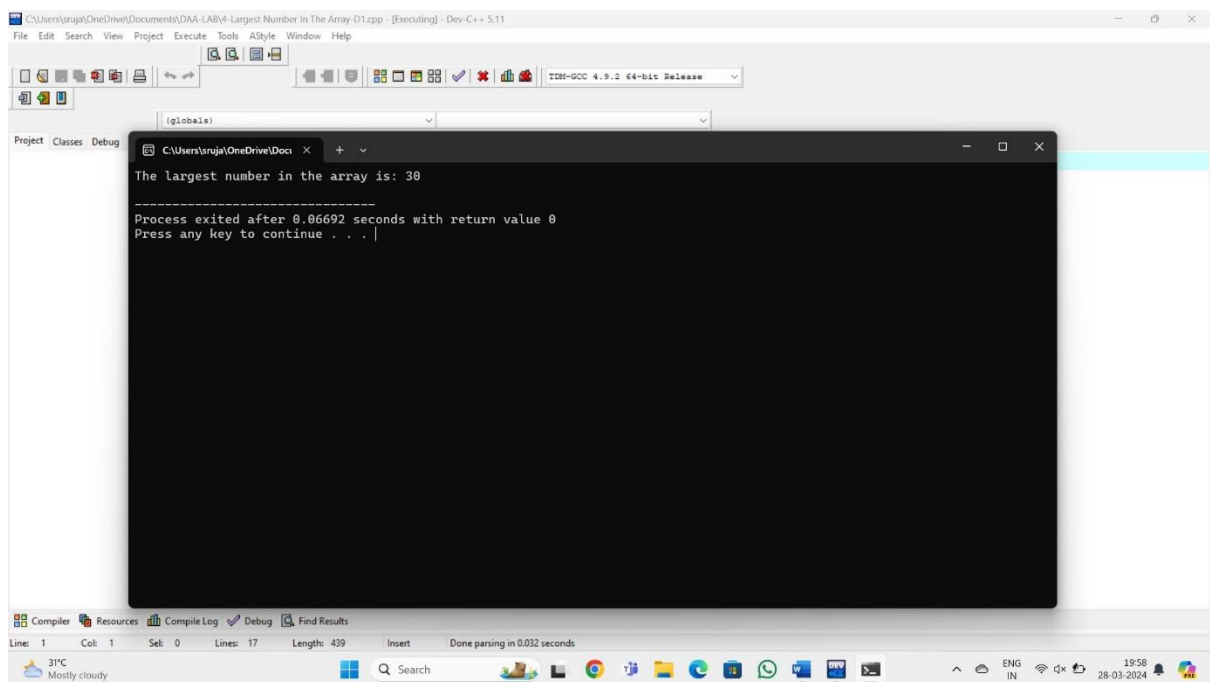


The screenshot shows the Dev-C++ IDE with a project named "DAA-LAB3-GCD Using Recursion-D1.cpp". The IDE is running the program, and a console window is open. The console output is as follows:

```
Enter two positive integers: 5 8
G.C.D of 5 and 8 is 1.
-----
Process exited after 13.17 seconds with return value 0
Press any key to continue . . .
```

The IDE's status bar at the bottom indicates "Line: 1 Col: 1 Sel: 0 Lines: 17 Length: 351" and "Done parsing in 0.016 seconds". The system tray shows the date as 28-03-2024 and the time as 13:29.

OUTPUT 4-

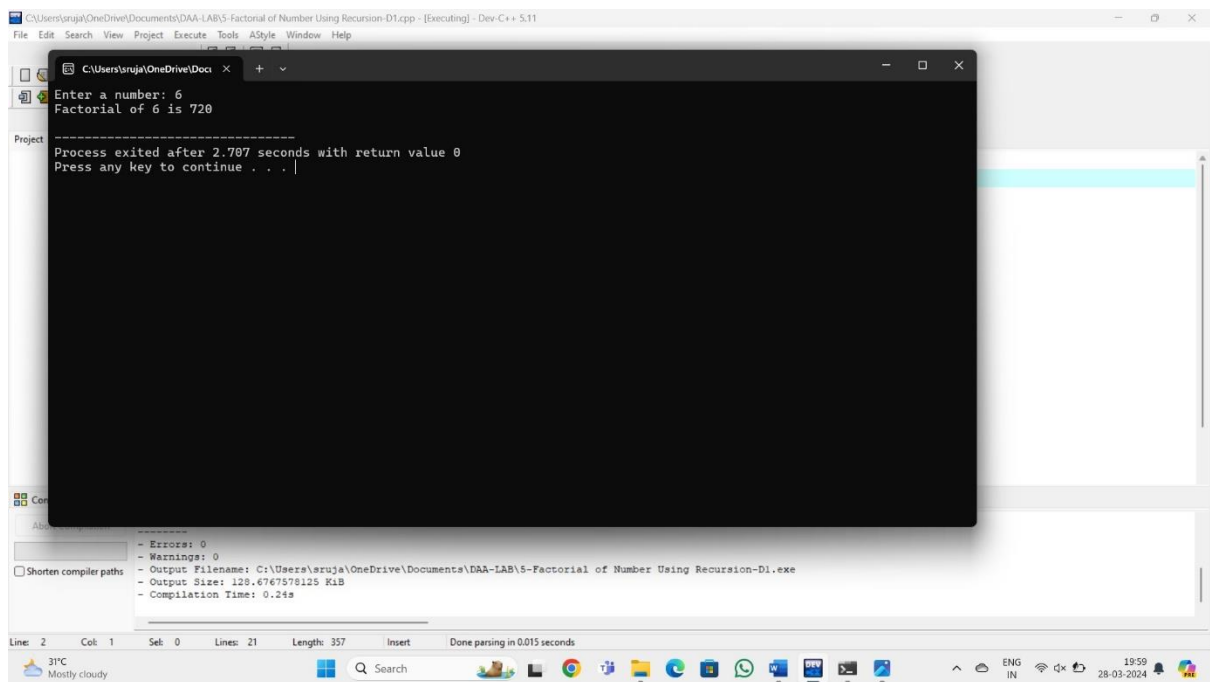


The screenshot shows the Dev-C++ IDE with a project named "DAA-LAB4-Largest Number In The Array-D1.cpp". The IDE is running the program, and a console window is open. The console output is as follows:

```
The largest number in the array is: 30
-----
Process exited after 0.06692 seconds with return value 0
Press any key to continue . . .
```

The IDE's status bar at the bottom indicates "Line: 1 Col: 1 Sel: 0 Lines: 17 Length: 439" and "Done parsing in 0.032 seconds". The system tray shows the date as 28-03-2024 and the time as 19:58.

OUTPUT 5-



```
C:\Users\sruja\OneDrive\Documents\DAAB-LAB5-Factorial of Number Using Recursion-D1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

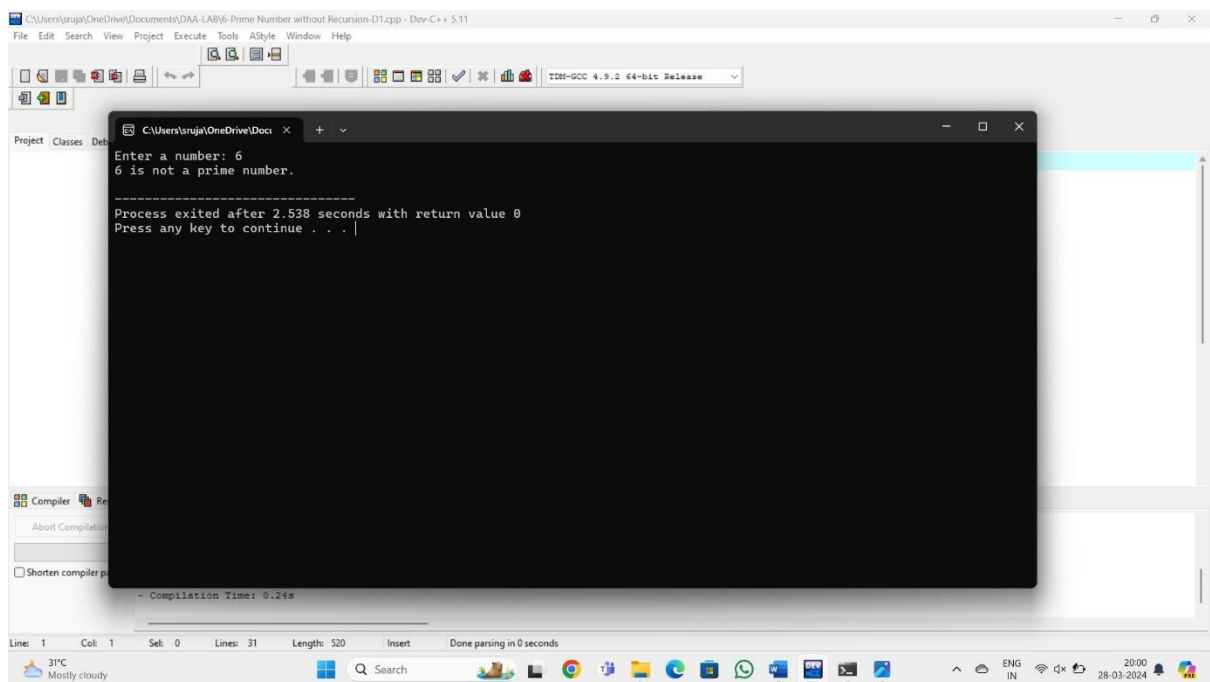
C:\Users\sruja\OneDrive\Documents\DAAB-LAB5-Factorial of Number Using Recursion-D1.cpp
Enter a number: 6
Factorial of 6 is 720

-----
Process exited after 2.707 seconds with return value 0
Press any key to continue . . .

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAAB-LAB5-Factorial of Number Using Recursion-D1.exe
- Output Size: 120.6767579125 KiB
- Compilation Time: 0.24s

Line: 2 Col: 1 Sel: 0 Lines: 21 Length: 357 Insert Done parsing in 0.015 seconds
31°C Mostly cloudy
```

OUTPUT 6-



```
C:\Users\sruja\OneDrive\Documents\DAAB-LAB6-Prime Number without Recursion-D1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

C:\Users\sruja\OneDrive\Documents\DAAB-LAB6-Prime Number without Recursion-D1.cpp
Enter a number: 6
6 is not a prime number.

-----
Process exited after 2.538 seconds with return value 0
Press any key to continue . . .

-----
- Compilation Time: 0.24s

Line: 1 Col: 1 Sel: 0 Lines: 31 Length: 520 Insert Done parsing in 0 seconds
31°C Mostly cloudy
```

OUTPUT 7-

The screenshot shows a Visual Studio IDE with a C++ project named "DAA-LAB7-Selection Sort-D1.zip" in the state of "[Executing]". The file "D1.cpp" is open, showing a bubble sort implementation. The console window displays the following output:

```

Original array: 64 25 12 22 11
Sorted array: 11 12 22 25 64

-----
Process exited after 0.05421 seconds with return value 0
Press any key to continue . . .

```

The status bar at the bottom indicates "Done parsing in 0.015 seconds". The Windows taskbar at the very bottom shows the date as 28-03-2024 and the time as 20:01.

OUTPUT 8-

The screenshot displays a Windows desktop environment. In the background, the Dev-C++ IDE is open, showing a project named 'DAA-LAB' with a file '8-Bubble Sort-D1.cpp' selected. The IDE's interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a project explorer on the left. The main editor area shows the code for the bubble sort algorithm. In the foreground, a terminal window is open, displaying the output of the program. The terminal text is as follows:

```

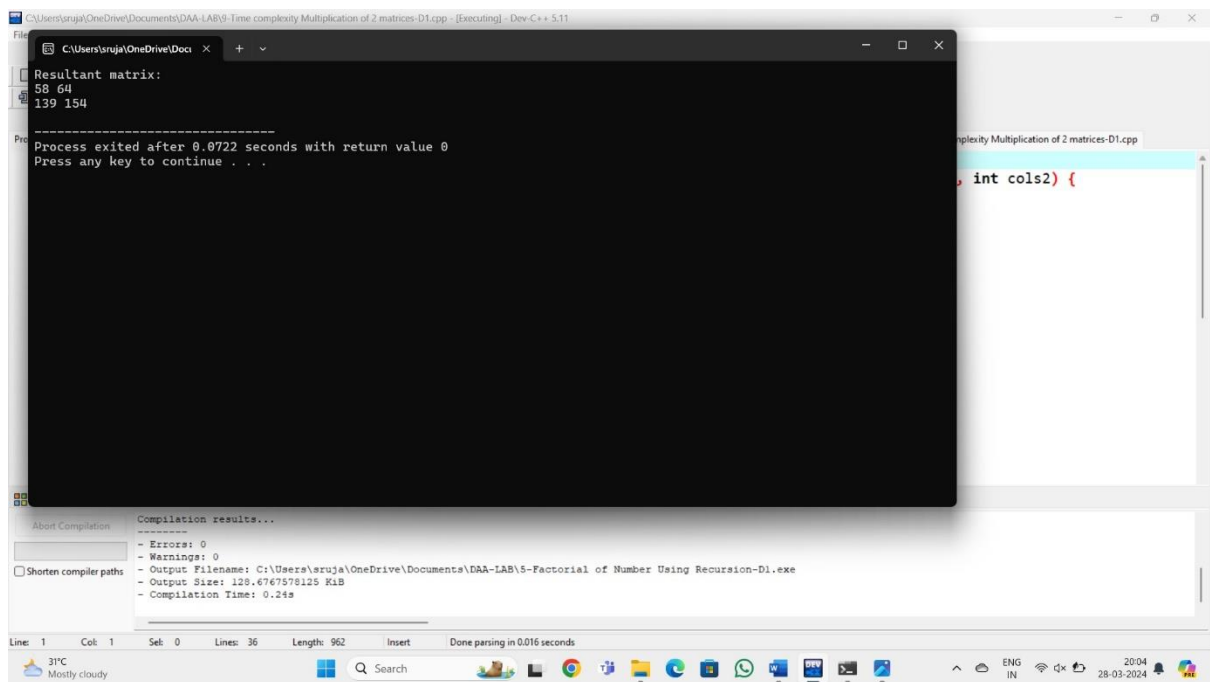
C:\Users\srjua\OneDrive\Doc\ x + v
Sorted array:
11 12 22 25 34 64 90

-----
Process exited after 0.04459 seconds with return value 0
Press any key to continue . . . |

```

The terminal window also shows the status bar at the bottom, indicating 'Line: 1', 'Col: 1', 'Sel: 0', 'Lines: 27', 'Length: 370', 'Insert', and 'Done parsing in 0.016 seconds'. The Windows taskbar at the bottom of the screen shows the system clock as 20:03 on 28-03-2024, along with various system icons and application shortcuts.

OUTPUT 9-

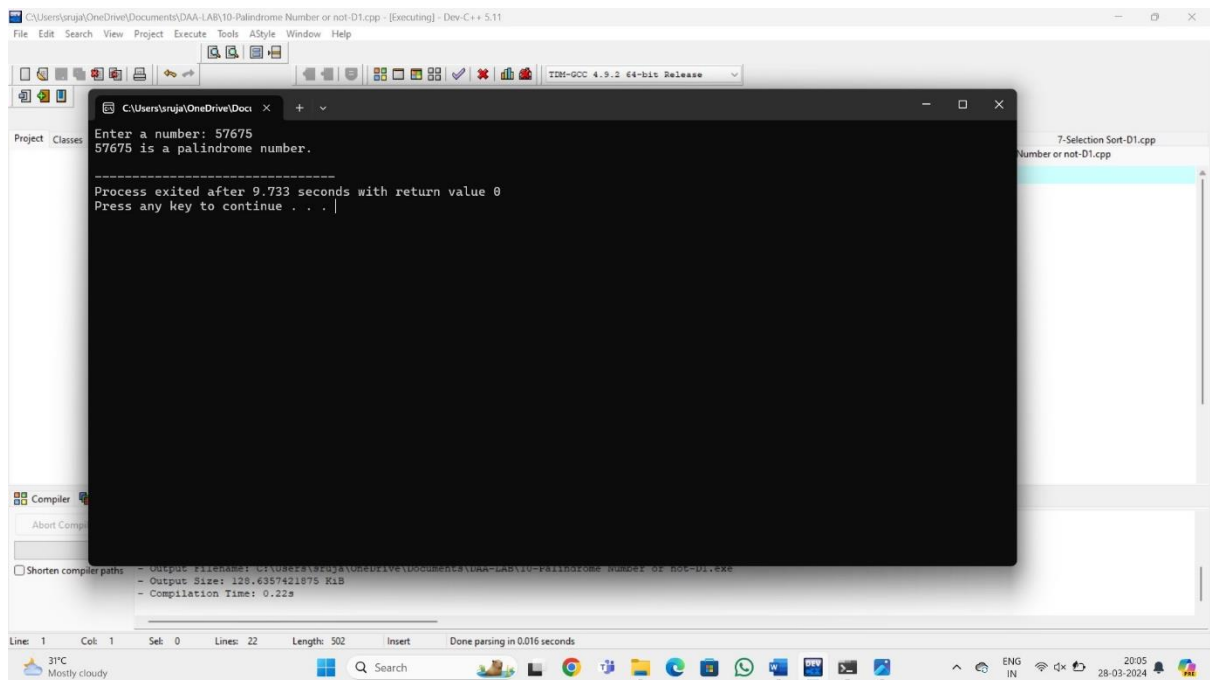


The screenshot shows a C++ IDE with a console window open. The console displays the following output:

```
Resultant matrix:  
58 64  
139 154  
-----  
Process exited after 0.0722 seconds with return value 0  
Press any key to continue . . .
```

The background shows the source code of a program titled "Time complexity Multiplication of 2 matrices-D1.cpp". The code includes a function signature for matrix multiplication. The IDE's status bar at the bottom indicates "Line: 1 Col: 1 Sel: 0 Lines: 36 Length: 962 Insert Done parsing in 0.016 seconds". The Windows taskbar at the bottom shows the date as 28-03-2024 and the time as 20:04.

OUTPUT 10-



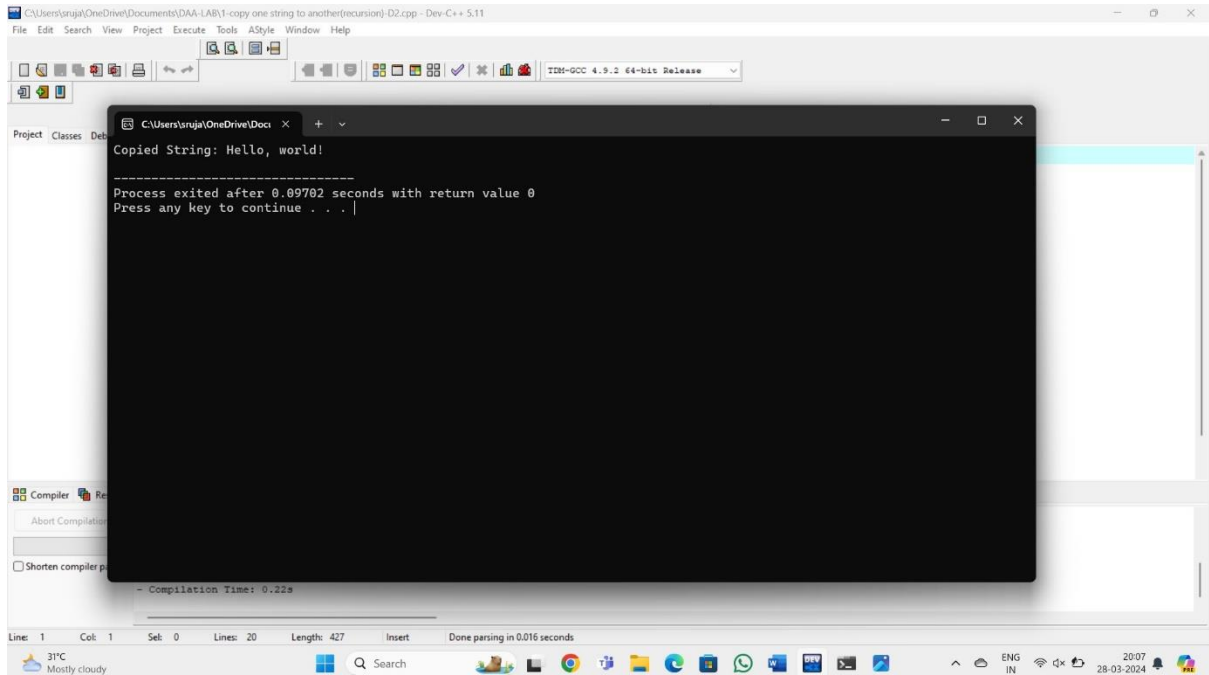
The screenshot shows a C++ IDE with a console window open. The console displays the following output:

```
Enter a number: 57675  
57675 is a palindrome number.  
-----  
Process exited after 9.733 seconds with return value 0  
Press any key to continue . . .
```

The background shows the source code of a program titled "7-Selection Sort-D1.cpp". The code includes a function signature for selection sort. The IDE's status bar at the bottom indicates "Line: 1 Col: 1 Sel: 0 Lines: 22 Length: 502 Insert Done parsing in 0.016 seconds". The Windows taskbar at the bottom shows the date as 28-03-2024 and the time as 20:05.

DAY-2

OUTPUT 1-



```
C:\Users\srnja\OneDrive\Documents\DAI-LAB\1 copy one string to another(recursion)\D2.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

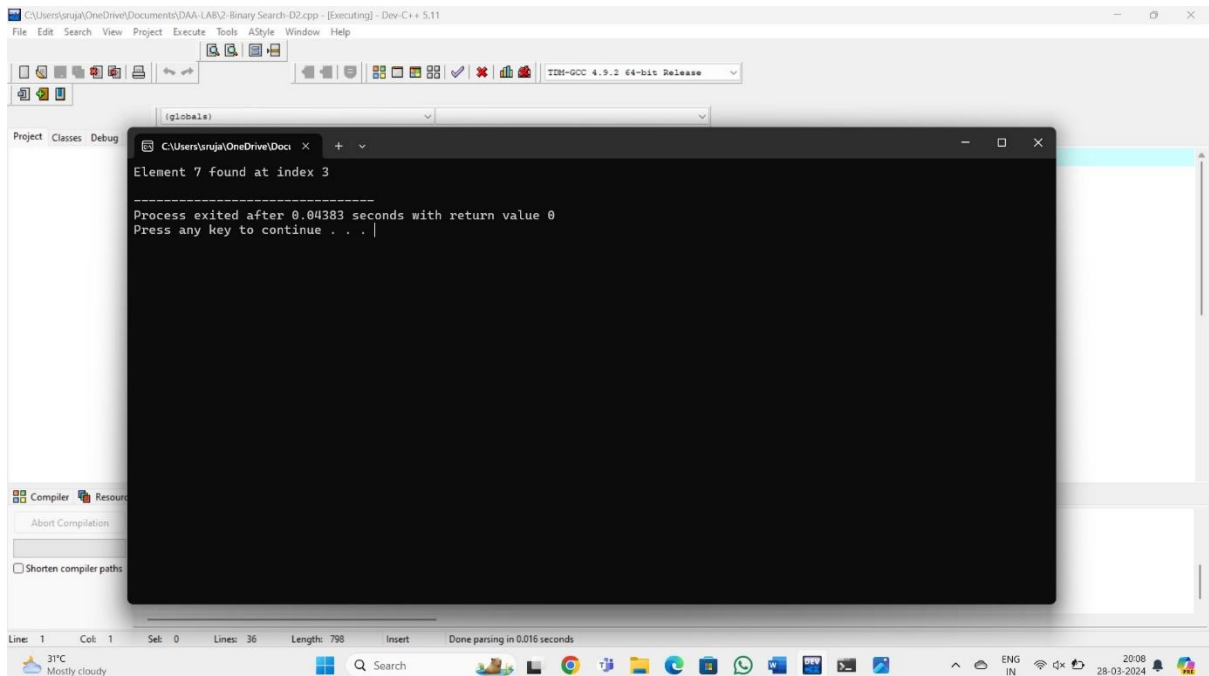
C:\Users\srnja\OneDrive\Doc...
Copied String: Hello, world!

-----
Process exited after 0.09782 seconds with return value 0
Press any key to continue . . .

-----
Compilation Time: 0.22s

Line: 1 Col: 1 Sel: 0 Lines: 20 Length: 427 Insert Done parsing in 0.016 seconds
31°C Mostly cloudy 20:07 28-09-2024
```

OUTPUT 2-



```
C:\Users\srnja\OneDrive\Documents\DAI-LAB\2 Binary Search-D2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

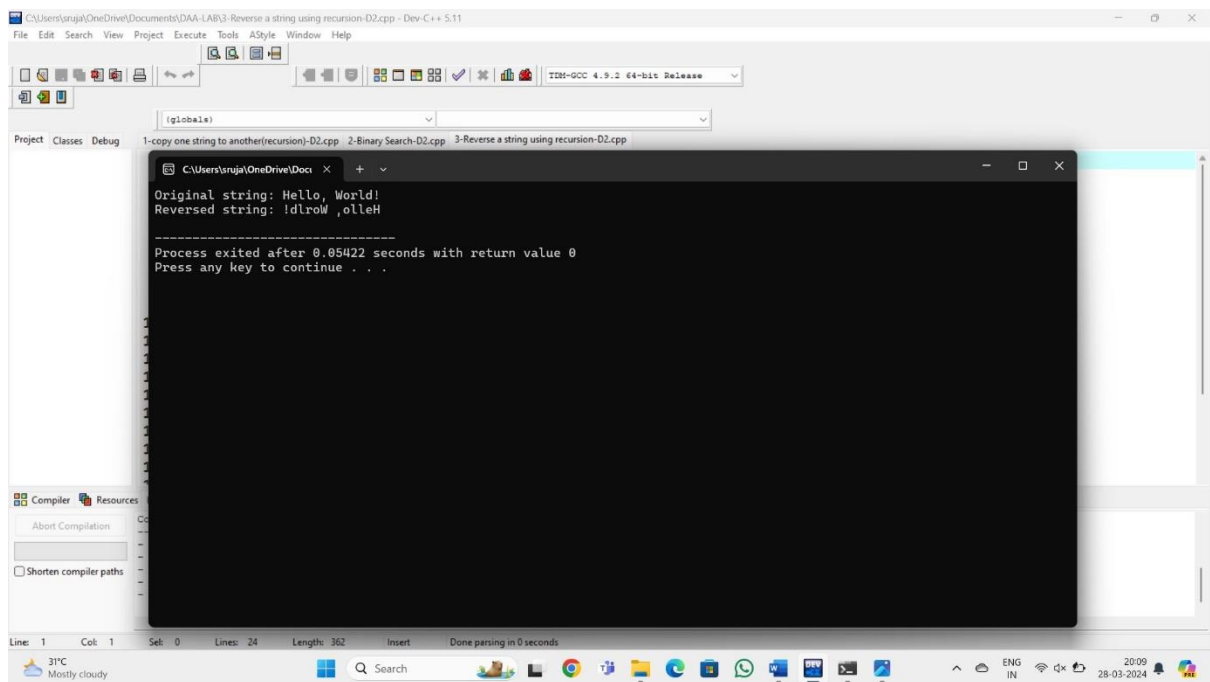
C:\Users\srnja\OneDrive\Doc...
Element 7 Found at index 3

-----
Process exited after 0.04383 seconds with return value 0
Press any key to continue . . .

-----
Compilation Time: 0.22s

Line: 1 Col: 1 Sel: 0 Lines: 36 Length: 798 Insert Done parsing in 0.016 seconds
31°C Mostly cloudy 20:08 28-09-2024
```

OUTPUT 3-

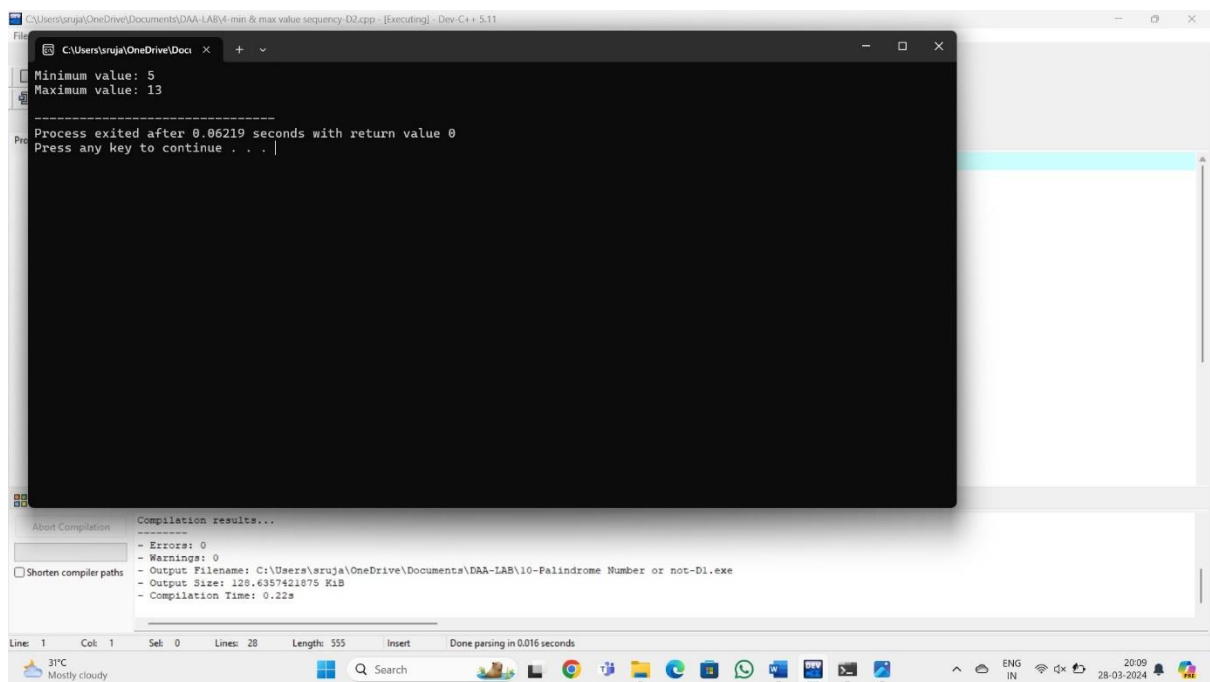


The screenshot shows a C++ IDE with a project named "DAA-LAB3-Reverse a string using recursion-D2.cpp". The IDE is running a program that reverses the string "Hello, World!". The output window displays the following text:

```
Original string: Hello, World!  
Reversed string: !dlroW ,olleH  
  
-----  
Process exited after 0.05422 seconds with return value 0  
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing the current line and column (Line: 1, Col: 1).

OUTPUT 4-

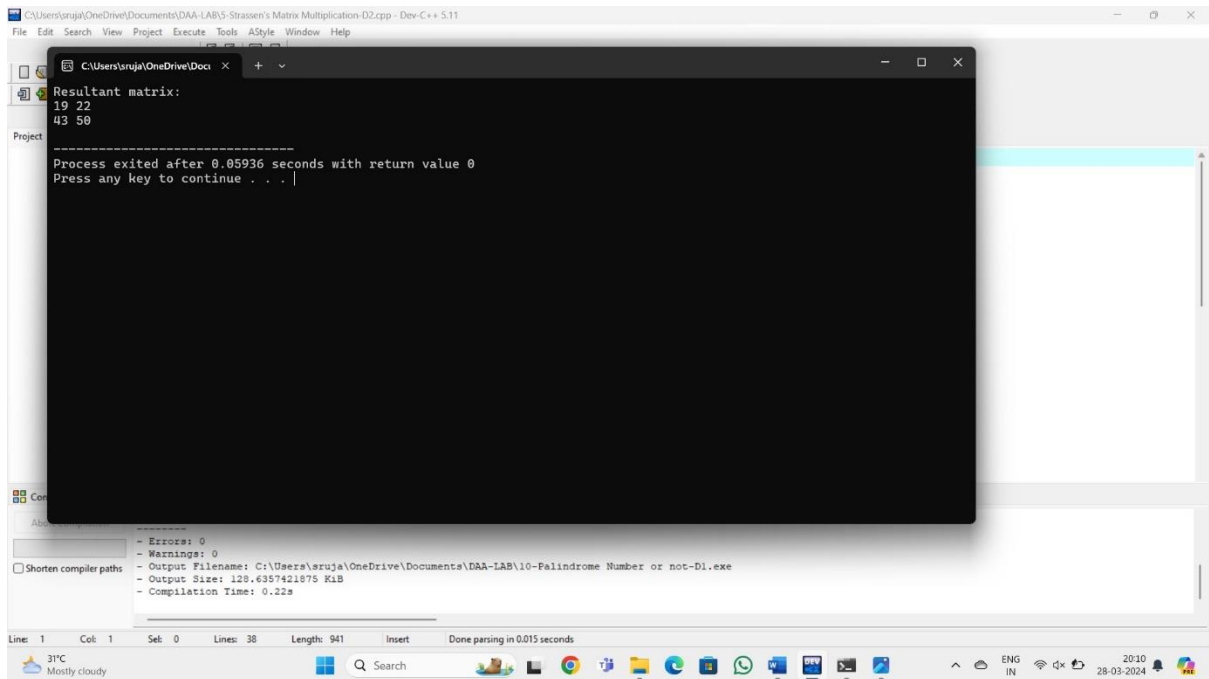


The screenshot shows a C++ IDE with a project named "DAA-LAB4-min & max value sequence-D2.cpp". The IDE is running a program that finds the minimum and maximum values in a sequence. The output window displays the following text:

```
Minimum value: 5  
Maximum value: 13  
  
-----  
Process exited after 0.06219 seconds with return value 0  
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing the current line and column (Line: 1, Col: 1). The output window also shows the compilation results, indicating that the program compiled successfully with no errors or warnings.

OUTPUT 5-



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB\5-Strassen's Matrix Multiplication-D2.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

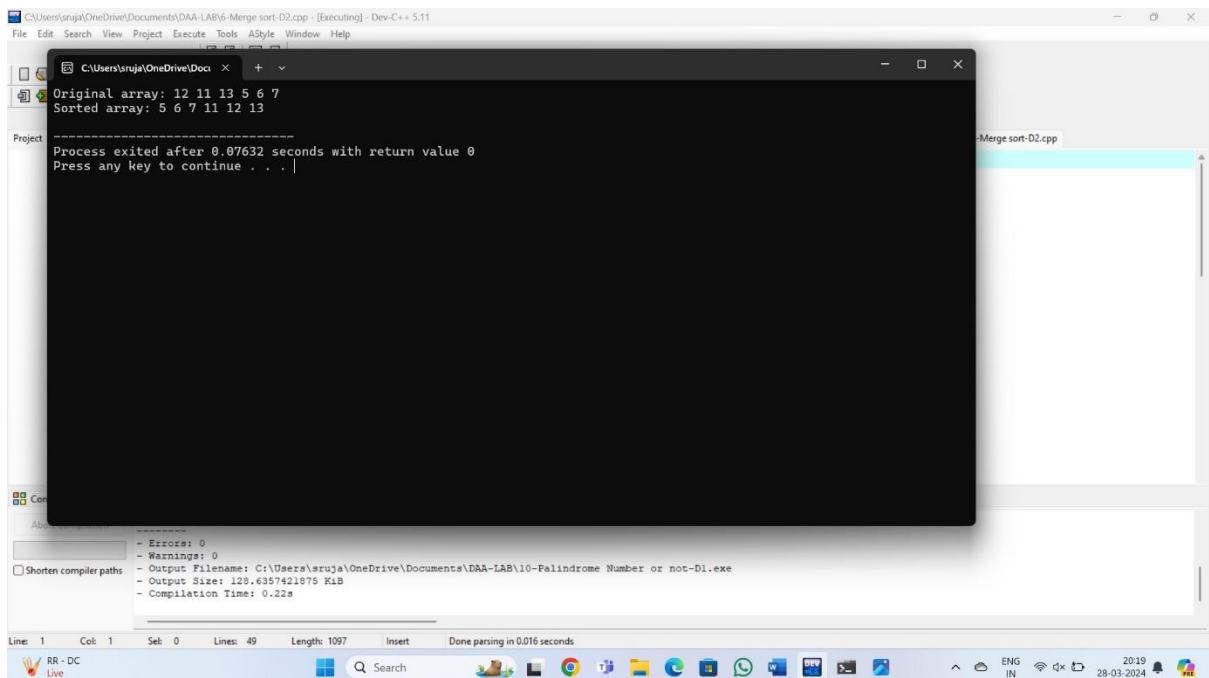
C:\Users\sruja\OneDrive\Documents\DAA-LAB\5-Strassen's Matrix Multiplication-D2.cpp
Resultant matrix:
19 22
43 50

-----
Process exited after 0.05936 seconds with return value 0
Press any key to continue . . .

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\10-Palindrome Number or not-D1.exe
- Output Size: 120.6357421875 KiB
- Compilation Time: 0.22s

Line: 1 Col: 1 Sel: 0 Lines: 38 Length: 941 Insert Done parsing in 0.015 seconds
31°C Mostly cloudy
```

OUTPUT 6-



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB\6-Merge sort-D2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

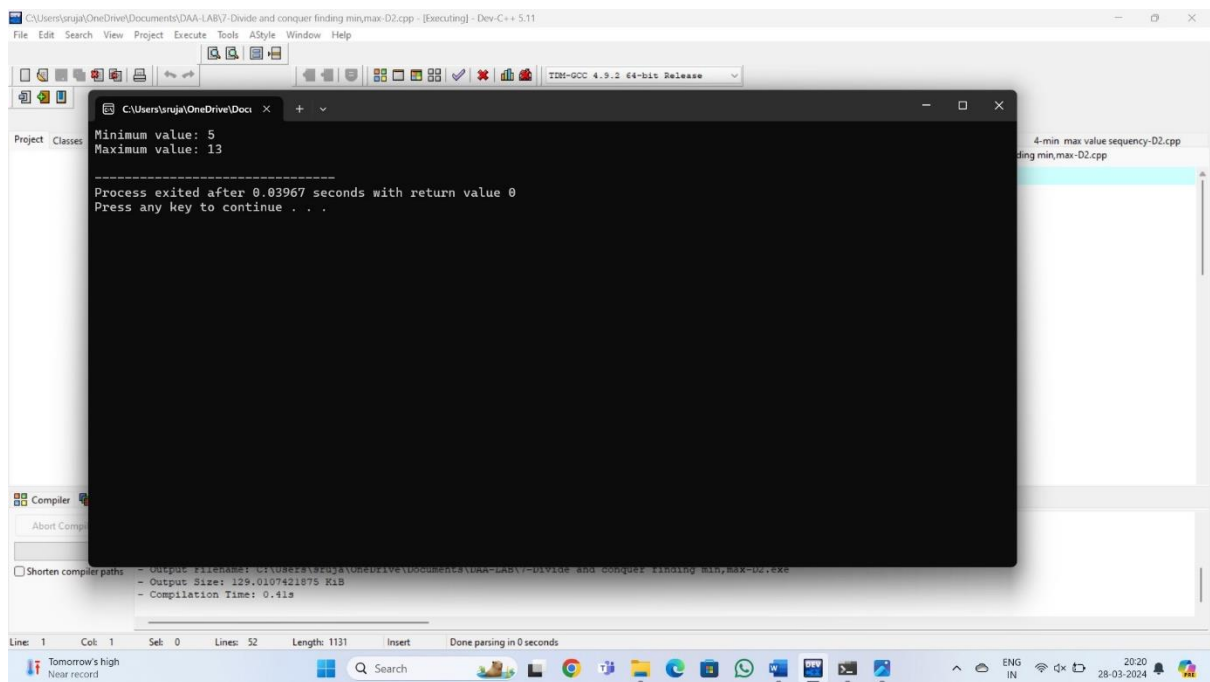
C:\Users\sruja\OneDrive\Documents\DAA-LAB\6-Merge sort-D2.cpp
Original array: 12 11 13 5 6 7
Sorted array: 5 6 7 11 12 13

-----
Process exited after 0.07632 seconds with return value 0
Press any key to continue . . .

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\10-Palindrome Number or not-D1.exe
- Output Size: 120.6357421875 KiB
- Compilation Time: 0.22s

Line: 1 Col: 1 Sel: 0 Lines: 49 Length: 1097 Insert Done parsing in 0.016 seconds
RR - DC Live
```


OUTPUT 7-



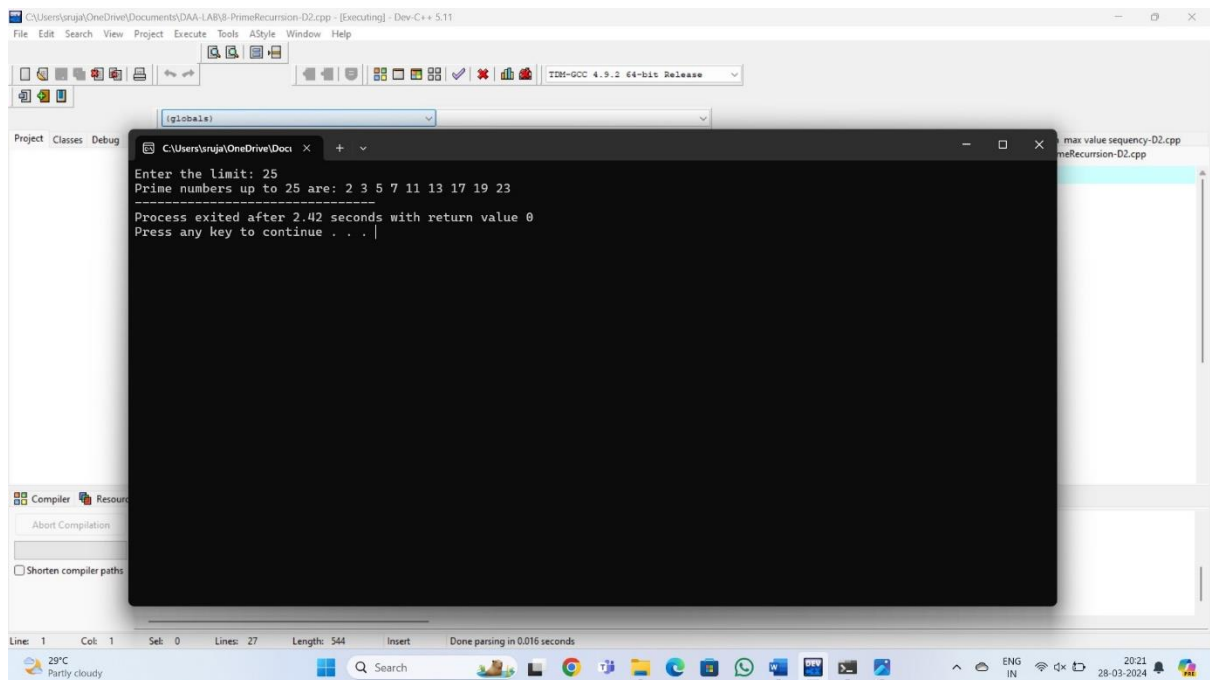
The screenshot shows a C++ IDE with a terminal window displaying the output of a program. The program has found the minimum value as 5 and the maximum value as 13. The terminal text is as follows:

```
Minimum value: 5
Maximum value: 13

-----
Process exited after 0.03967 seconds with return value 0
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing line 1, column 1, and other details.

OUTPUT 8-



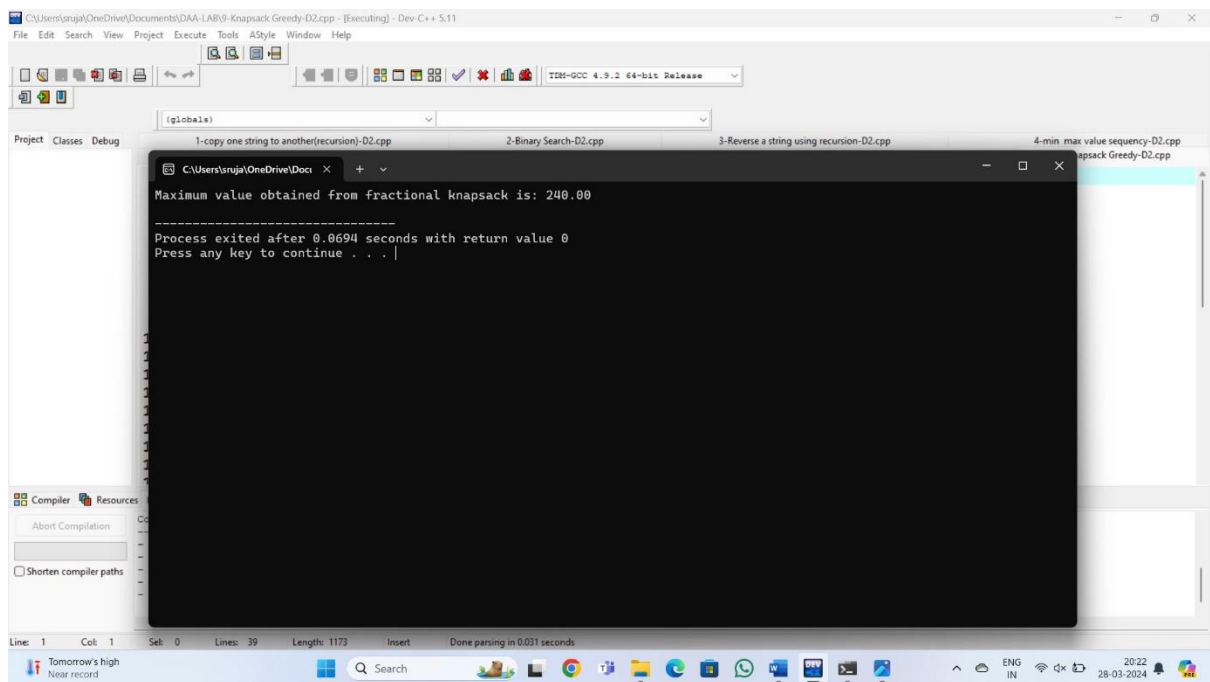
The screenshot shows a C++ IDE with a terminal window displaying the output of a program. The program has found prime numbers up to the limit of 25. The terminal text is as follows:

```
Enter the limit: 25
Prime numbers up to 25 are: 2 3 5 7 11 13 17 19 23

-----
Process exited after 2.42 seconds with return value 0
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing line 1, column 1, and other details.

OUTPUT 9-

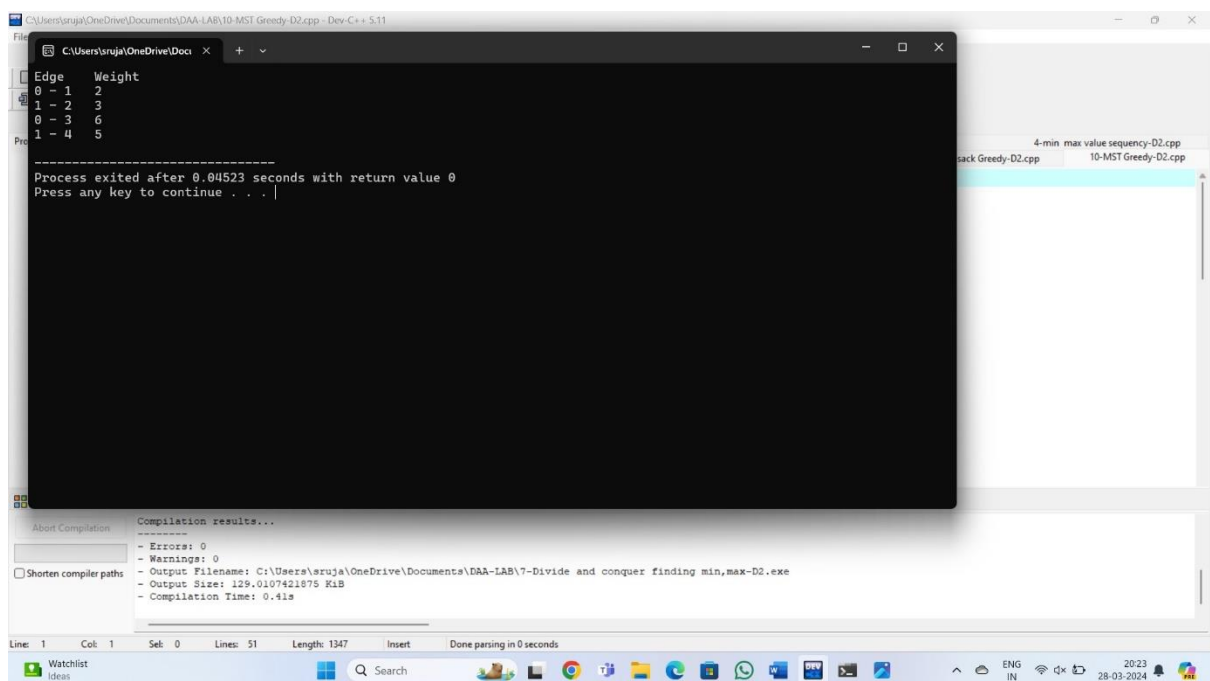


The screenshot shows a C++ IDE with a project named "Knapsack Greedy-D2.cpp". The output window displays the following text:

```
Maximum value obtained from fractional knapsack is: 240.00  
-----  
Process exited after 0.0694 seconds with return value 0  
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing the current line and column.

OUTPUT 10-



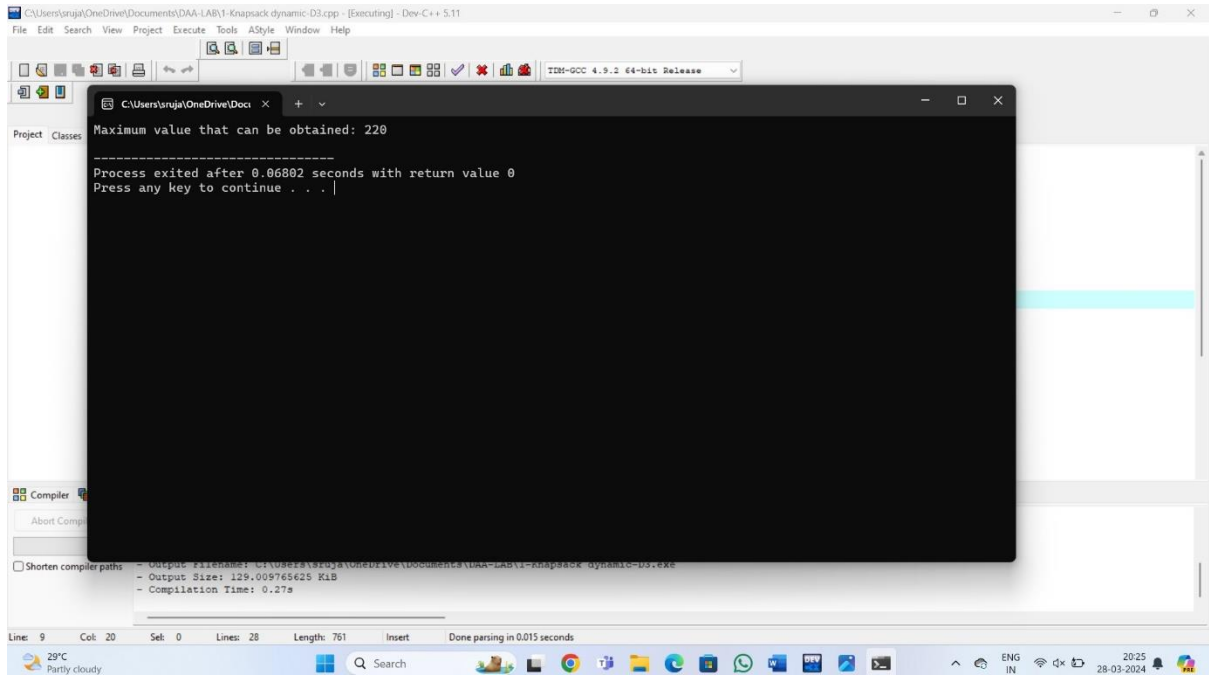
The screenshot shows a C++ IDE with a project named "10-MST Greedy-D2.cpp". The output window displays the following text:

```
Edge    Weight  
0 - 1    2  
1 - 2    3  
0 - 3    6  
1 - 4    5  
-----  
Process exited after 0.04523 seconds with return value 0  
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing the current line and column.

DAY-3

OUPUT-1



```
C:\Users\srnja\OneDrive\Documents\DAI-LAB\1 Knapsack dynamic D3.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

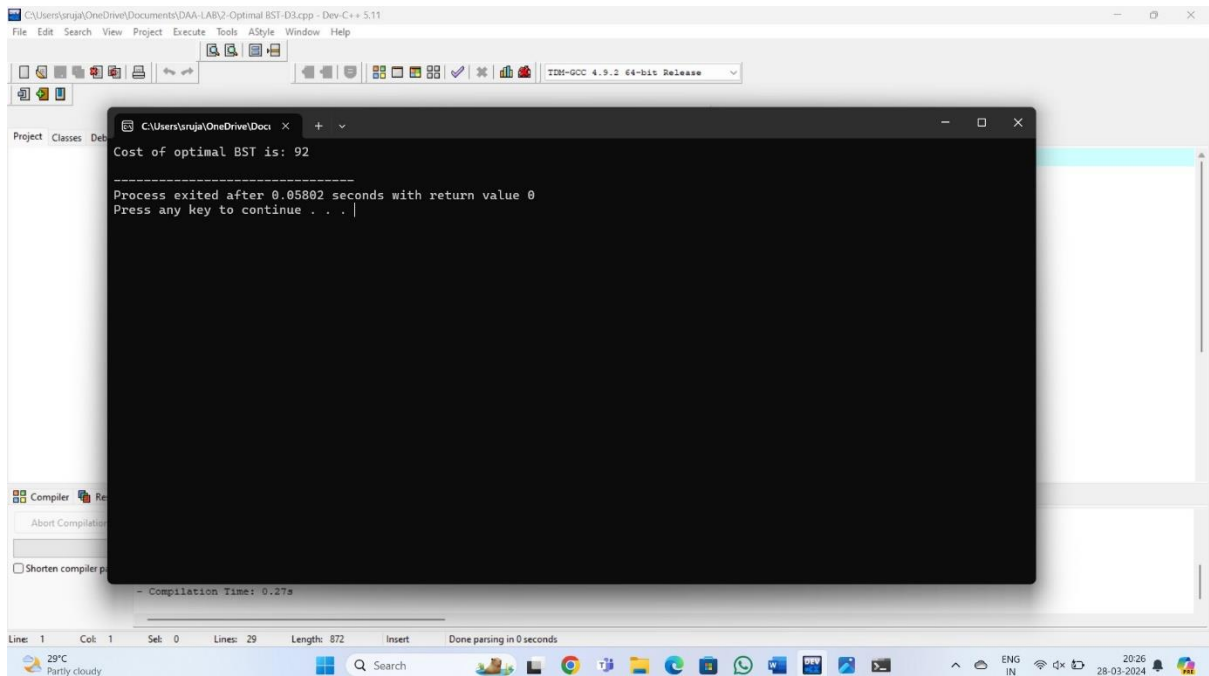
Maximum value that can be obtained: 220
-----
Process exited after 0.06802 seconds with return value 0
Press any key to continue . . .

Compiler
Abort Compilation

Shorten compiler paths
- Output filename: C:\Users\srnja\OneDrive\Documents\DAI-LAB\1 Knapsack dynamic D3.exe
- Output size: 129.009765625 KiB
- Compilation time: 0.27s

Line: 9 Col: 20 Sel: 0 Lines: 28 Length: 761 Insert Done parsing in 0.015 seconds
29°C Partly cloudy 20:25 28-09-2024
```

OUTPUT -2



```
C:\Users\srnja\OneDrive\Documents\DAI-LAB\2 Optimal BST D3.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

Cost of optimal BST is: 92
-----
Process exited after 0.05802 seconds with return value 0
Press any key to continue . . .

Compiler
Abort Compilation

Shorten compiler paths
- Compilation time: 0.27s

Line: 1 Col: 1 Sel: 0 Lines: 29 Length: 872 Insert Done parsing in 0 seconds
29°C Partly cloudy 20:26 28-09-2024
```

OUTPUT 3-

The screenshot shows a Windows IDE with the following components:

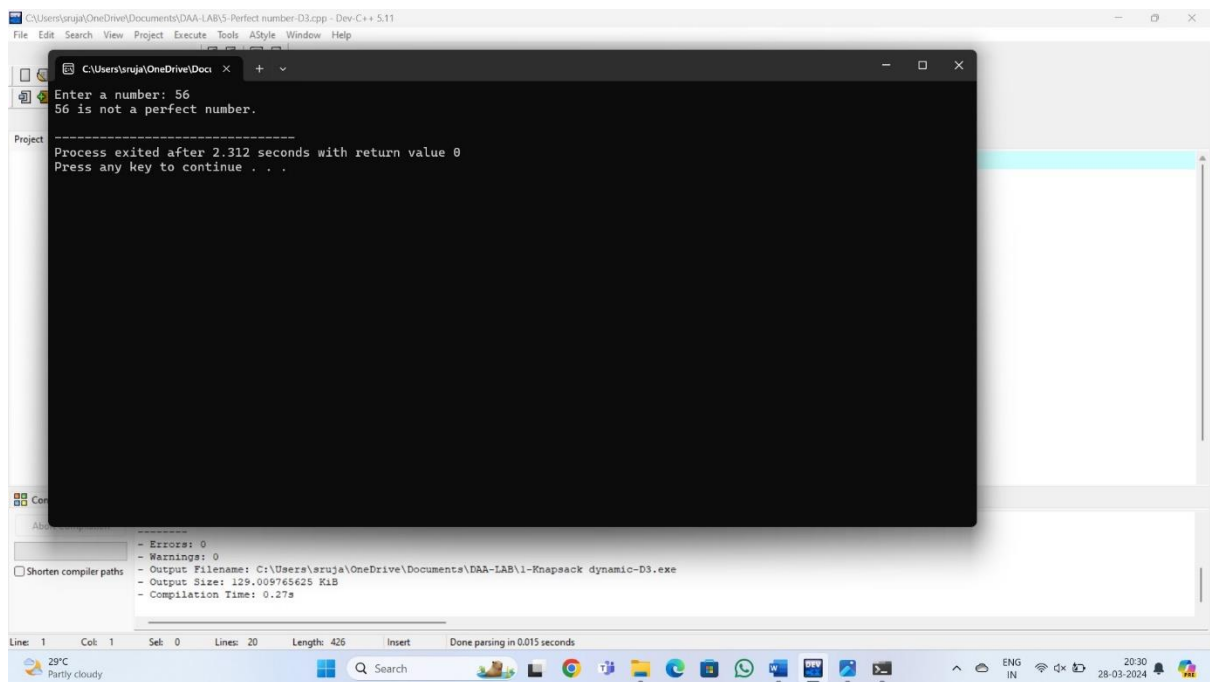
- Menu Bar:** File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help.
- Toolbar:** Includes icons for file operations (open, save, print), editing (undo, redo), and execution (run, debug).
- Project Explorer:** Shows a project named "globals".
- Compiler/Resource Panel:** Includes buttons for "Compiler", "Resources", "Abort Compilation", and a checkbox for "Shorten compiler paths".
- Console Window:** Displays the output of the program:


```
Binomial coefficient of (5, 2) is 10
-----
Process exited after 0.05611 seconds with return value 0
Press any key to continue . . .
```
- Status Bar:** Shows "Line: 1", "Col: 1", "Sel: 0", "Lines: 21", "Length: 532", "Insert", and "Done parsing in 0.016 seconds".
- Taskbar:** Includes the Windows Start button, search bar, and various application icons (Chrome, File Explorer, etc.). The system clock shows "20:27 28-03-2024".

OUTPUT 4-

The screenshot displays a Windows desktop environment. A large, dark-themed terminal window is open, showing the execution of a C++ program. The program prompts the user to 'Enter a number: 56798' and outputs 'Reverse of 56798 is 89765'. Below this, it states 'Process exited after 3.846 seconds with return value 0' and 'Press any key to continue . . .'. The terminal window's title bar indicates the file path: 'C:\Users\srulja\OneDrive\Documents\'. Below the terminal, a 'Compilation results...' window is visible, showing 'Errors: 0', 'Warnings: 0', and 'Compilation Time: 0.27s'. The taskbar at the bottom shows the system clock as 20:29 on 28-03-2024, along with various application icons and system status indicators like temperature (29°C) and network connectivity.

OUTPUT 5-



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB5-Perfect number-D3.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

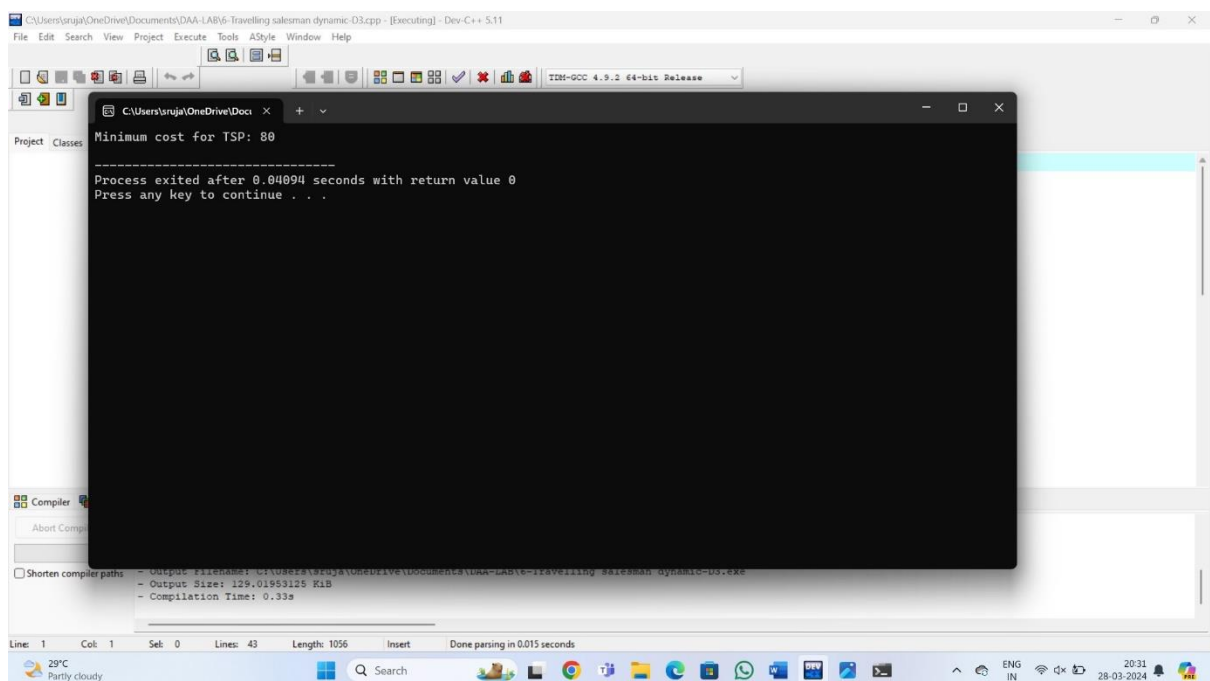
C:\Users\sruja\OneDrive\Documents\
Enter a number: 56
56 is not a perfect number.

-----
Process exited after 2.312 seconds with return value 0
Press any key to continue . . .

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\1-Knapsack dynamic-D3.exe
- Output Size: 129.009765625 KiB
- Compilation Time: 0.27s

Line: 1 Col: 1 Sel: 0 Lines: 20 Length: 426 Insert Done parsing in 0.015 seconds
29°C Partly cloudy
```

OUTPUT 6-



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB6-Travelling salesman dynamic-D3.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

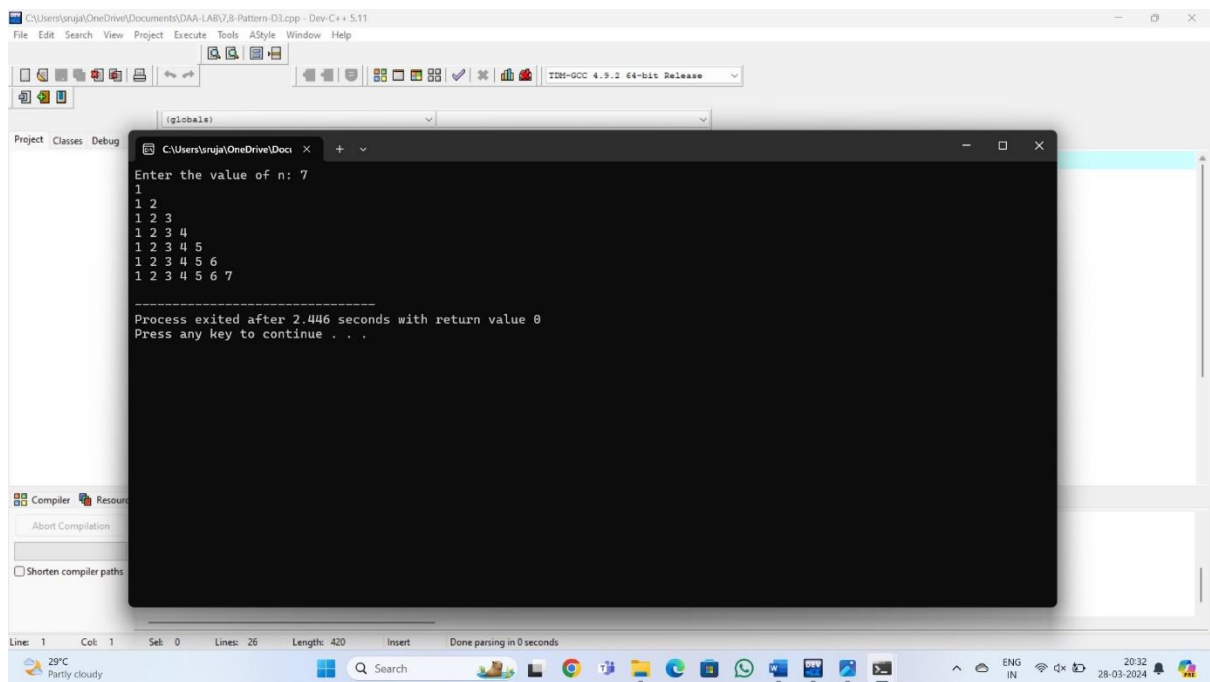
C:\Users\sruja\OneDrive\Documents\
Minimum cost for TSP: 80

-----
Process exited after 0.00094 seconds with return value 0
Press any key to continue . . .

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\6-Travelling salesman dynamic-D3.exe
- Output Size: 129.01953125 KiB
- Compilation Time: 0.33s

Line: 1 Col: 1 Sel: 0 Lines: 43 Length: 1056 Insert Done parsing in 0.015 seconds
29°C Partly cloudy
```

OUTPUT 7,8-

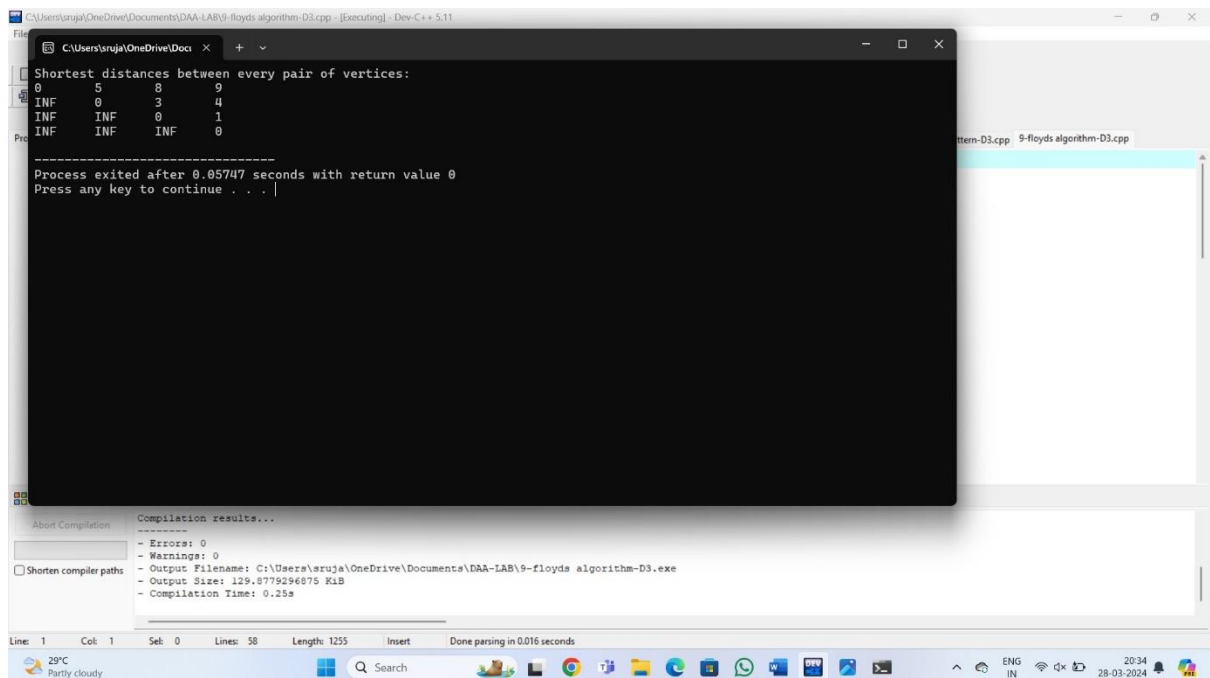


The screenshot shows the Dev-C++ IDE with a project named "DAA-LAB\7,8-Pattern-D3.cpp". The program prompts the user to "Enter the value of n: 7". The output displays a pattern of numbers from 1 to 7, arranged in rows. The pattern is as follows:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
1 2 3 4 5 6
1 2 3 4 5 6 7
```

After the pattern, the program exits with a return value of 0 and prompts the user to "Press any key to continue . . .".

OUTPUT 9-



The screenshot shows the Dev-C++ IDE with a project named "DAA-LAB\9-floyds algorithm-D3.cpp". The program outputs the shortest distances between every pair of vertices. The output is a 4x4 matrix:

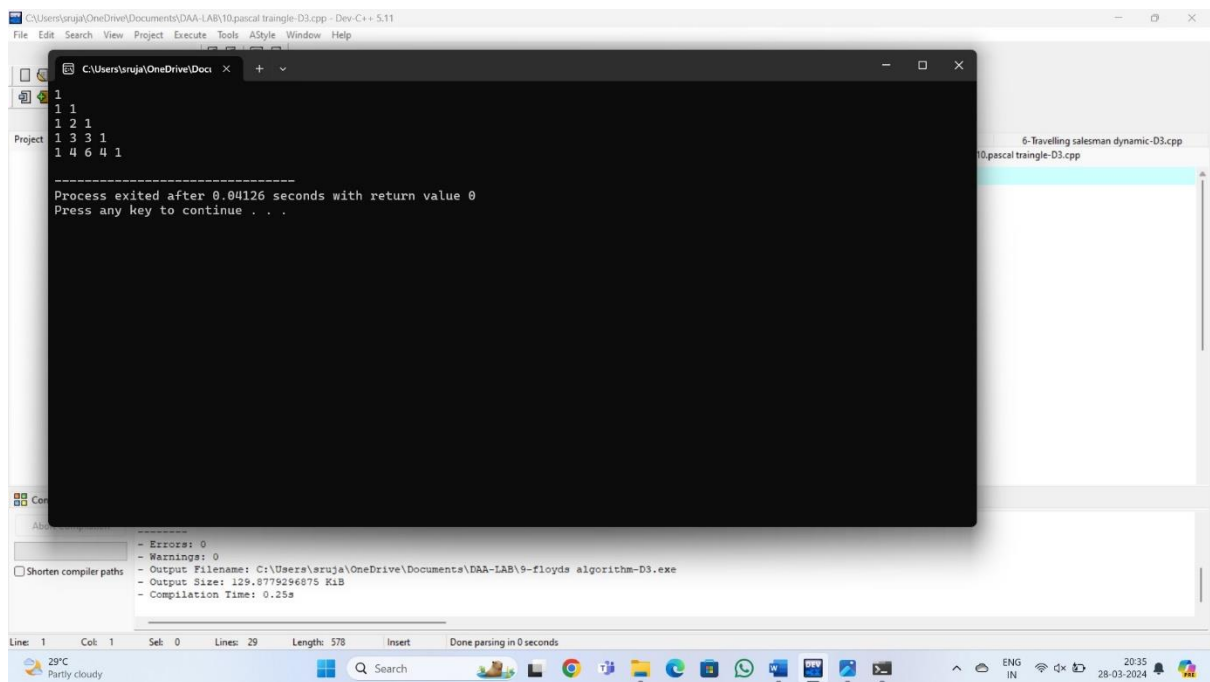
```
Shortest distances between every pair of vertices:
0   5   8   9
INF 0   3   4
INF INF 0   1
INF INF INF 0
```

After the matrix, the program exits with a return value of 0 and prompts the user to "Press any key to continue . . .".

Below the output window, the "Compilation results..." panel shows the following information:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\9-floyds algorithm-D3.exe
- Output Size: 129.9779296875 KiB
- Compilation Time: 0.25s

OUTPUT 10-



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB\10.pascal triangle-D3.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

C:\Users\sruja\OneDrive\Documents\DAA-LAB\10.pascal triangle-D3.cpp
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1

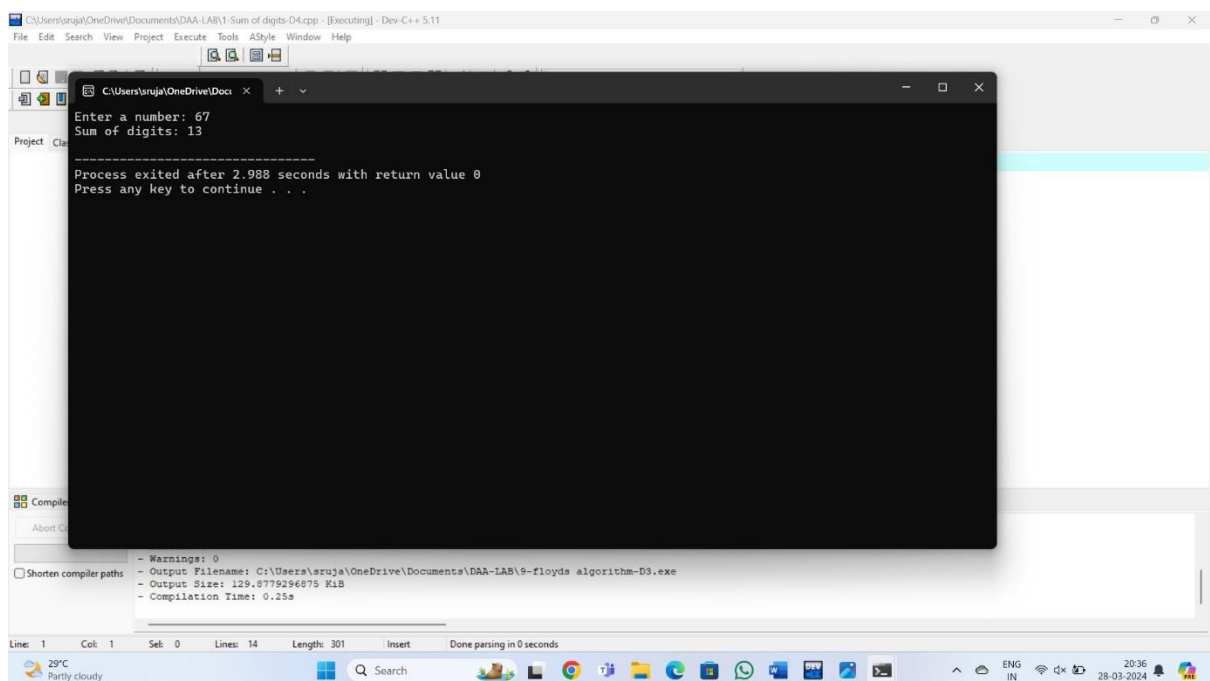
-----
Process exited after 0.04126 seconds with return value 0
Press any key to continue . . .

-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\9-floyds algorithm-D3.exe
- Output Size: 129.8779296875 KiB
- Compilation Time: 0.25s

Line: 1 Col: 1 Sel: 0 Lines: 29 Length: 578 Insert Done parsing in 0 seconds
29°C Partly cloudy
```

DAY -4

OUTPUT-1



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB\1-Sum of digits-D4.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

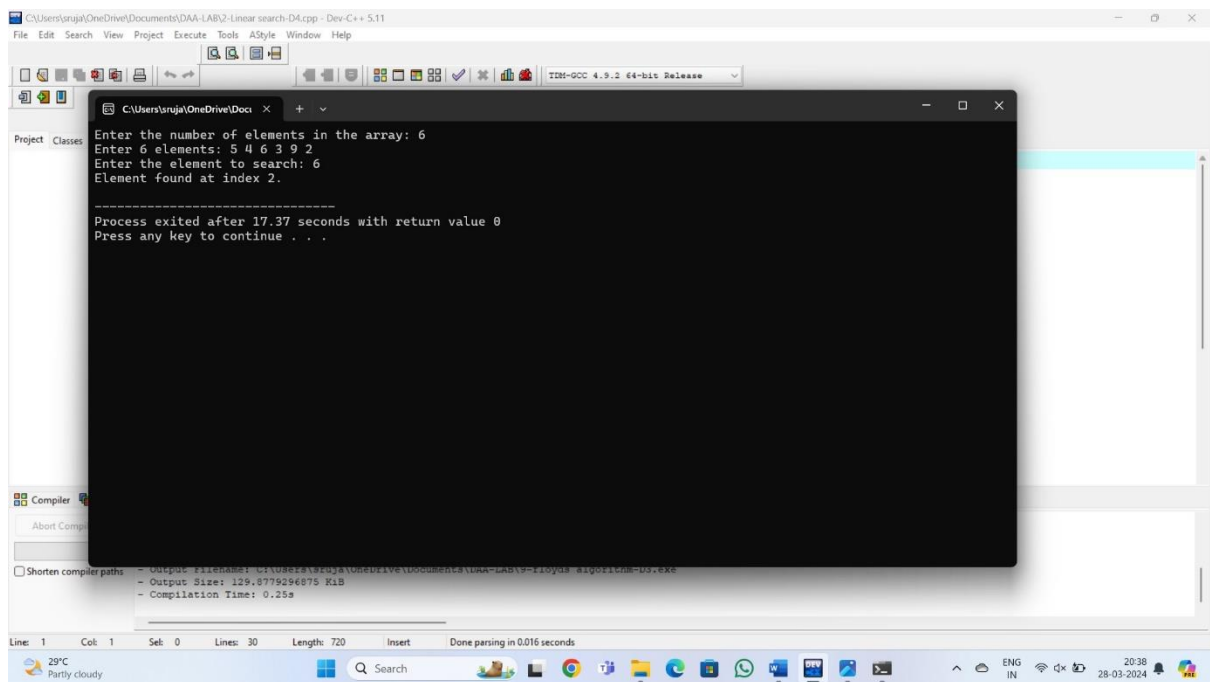
C:\Users\sruja\OneDrive\Documents\DAA-LAB\1-Sum of digits-D4.cpp
Enter a number: 67
Sum of digits: 13

-----
Process exited after 2.988 seconds with return value 0
Press any key to continue . . .

-----
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\9-floyds algorithm-D3.exe
- Output Size: 129.8779296875 KiB
- Compilation Time: 0.25s

Line: 1 Col: 1 Sel: 0 Lines: 14 Length: 301 Insert Done parsing in 0 seconds
29°C Partly cloudy
```

OUTPUT 2-



```
C:\Users\srnja\OneDrive\Documents\DAI-LAB\2- Linear search-D4.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

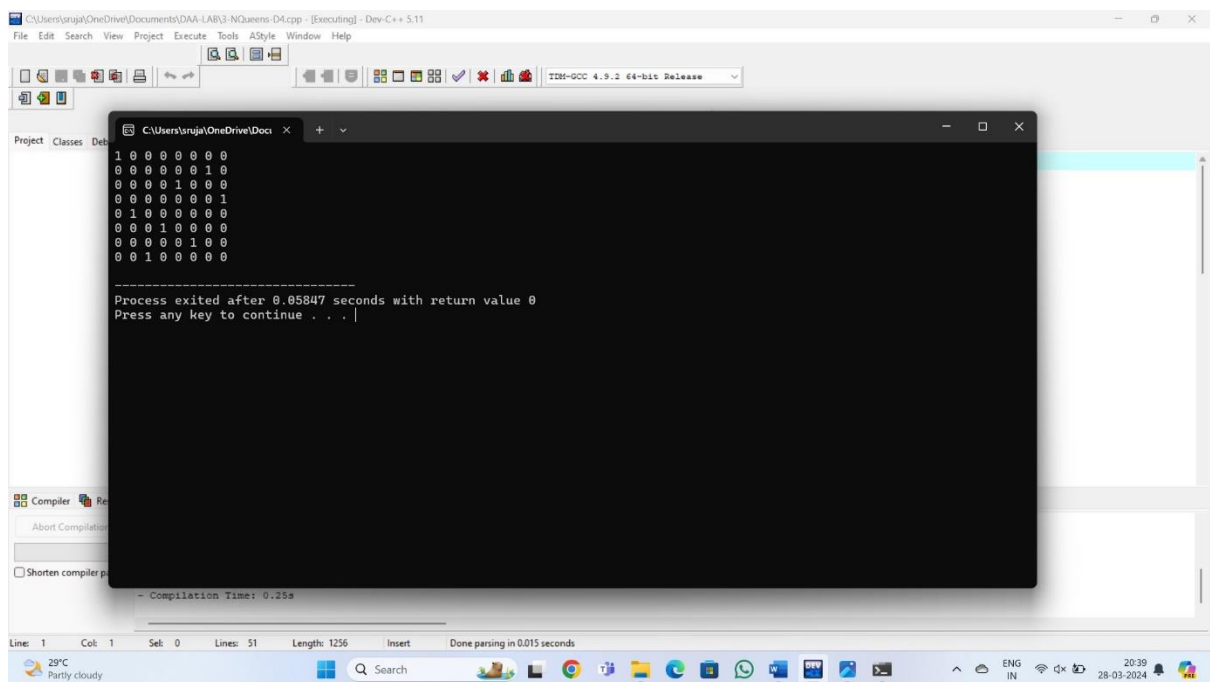
Enter the number of elements in the array: 6
Enter 6 elements: 5 4 6 3 9 2
Enter the element to search: 6
Element found at index 2.

-----
Process exited after 17.37 seconds with return value 0
Press any key to continue . . .

Compiler
- Output filename: C:\Users\srnja\OneDrive\Documents\DAI-LAB\2-Linear search-D4.exe
- Output Size: 129.8779296875 KiB
- Compilation Time: 0.25s

Line: 1 Col: 1 Sel: 0 Lines: 30 Length: 720 Insert Done parsing in 0.016 seconds
29°C Partly cloudy
```

OUTPUT 3-



```
C:\Users\srnja\OneDrive\Documents\DAI-LAB\3- NQueens-D4.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

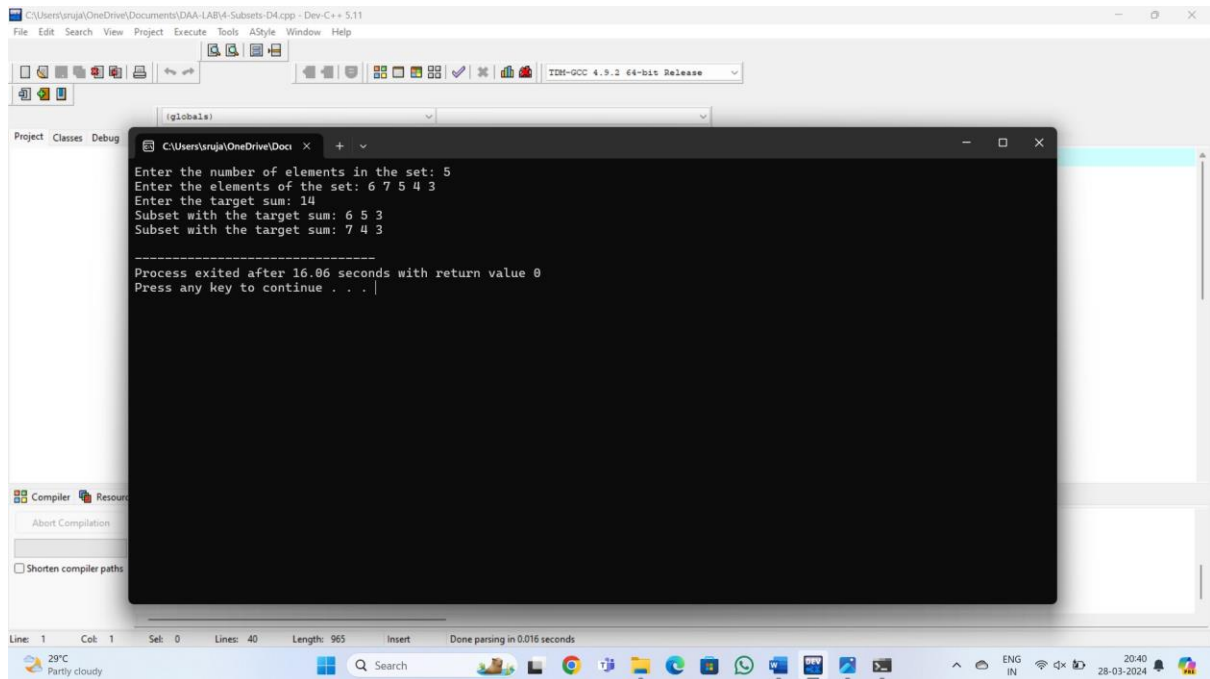
1 0 0 0 0 0 0 0 0
0 0 0 0 0 0 1 0
0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 1
0 1 0 0 0 0 0 0
0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0
0 0 1 0 0 0 0 0

-----
Process exited after 0.05847 seconds with return value 0
Press any key to continue . . .

Compiler
- Compilation Time: 0.25s

Line: 1 Col: 1 Sel: 0 Lines: 51 Length: 1256 Insert Done parsing in 0.015 seconds
29°C Partly cloudy
```


OUTPUT 4-



```
C:\Users\sruja\OneDrive\Documents\DAALAB\4-Subsets-D4.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

(globals)

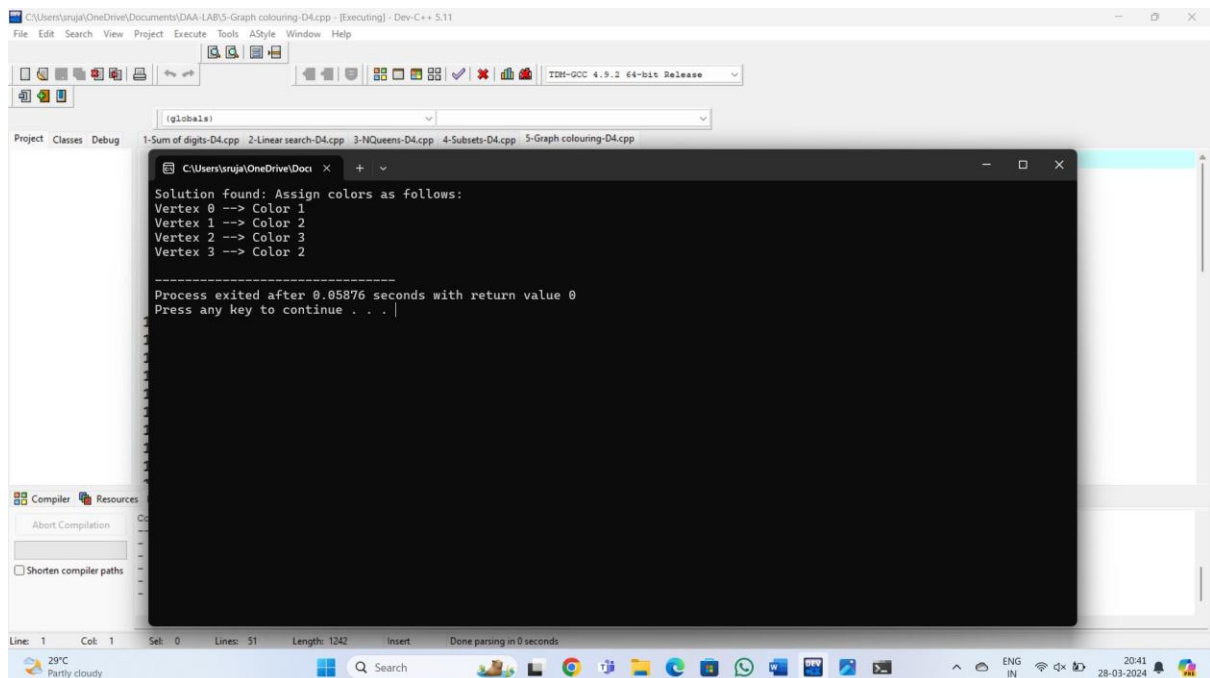
C:\Users\sruja\OneDrive\Doc...
Enter the number of elements in the set: 5
Enter the elements of the set: 6 7 5 4 3
Enter the target sum: 14
Subset with the target sum: 6 5 3
Subset with the target sum: 7 4 3

-----
Process exited after 16.06 seconds with return value 0
Press any key to continue . . . |

Compiler Resources
Abort Compilation
Shorten compiler paths

Line: 1 Col: 1 Sel: 0 Lines: 40 Length: 965 Insert Done parsing in 0.016 seconds
29°C Partly cloudy Search 28-03-2024
```

OUTPUT 5-



```
C:\Users\sruja\OneDrive\Documents\DAALAB\5-Graph colouring-D4.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help

(globals)

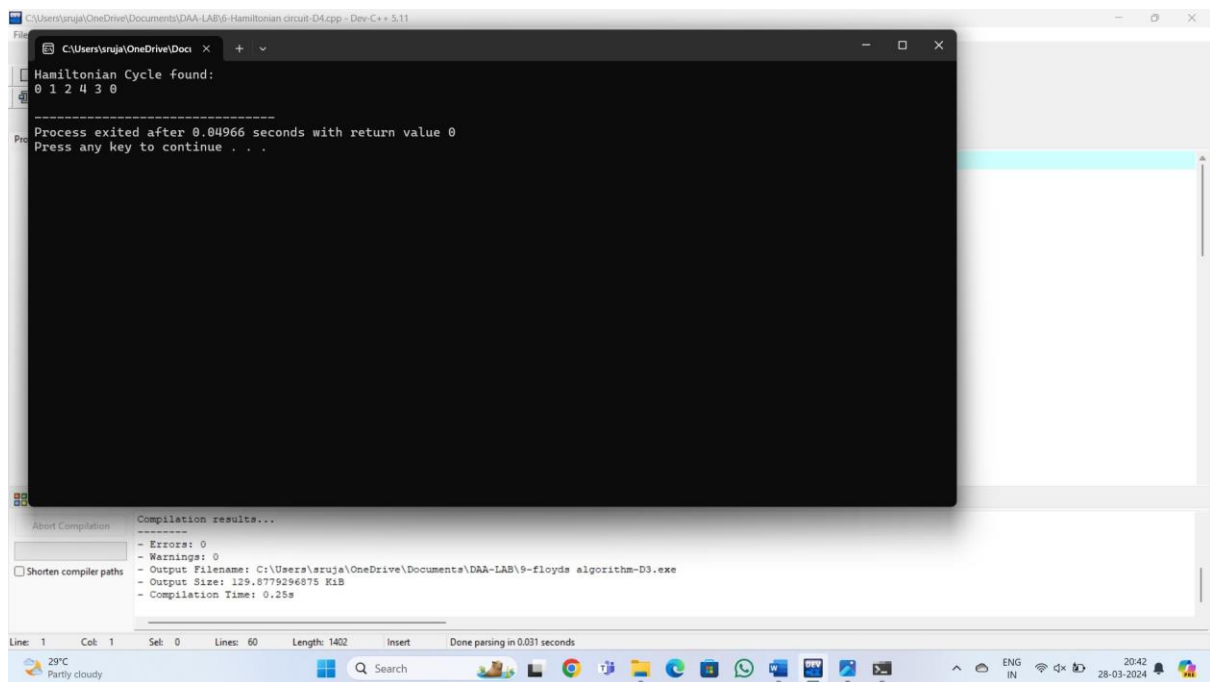
C:\Users\sruja\OneDrive\Doc...
Solution found: Assign colors as follows:
Vertex 0 --> Color 1
Vertex 1 --> Color 2
Vertex 2 --> Color 3
Vertex 3 --> Color 2

-----
Process exited after 0.05876 seconds with return value 0
Press any key to continue . . . |

Compiler Resources
Abort Compilation
Shorten compiler paths

Line: 1 Col: 1 Sel: 0 Lines: 51 Length: 1342 Insert Done parsing in 0 seconds
29°C Partly cloudy Search 28-03-2024
```

OUTPUT 6-



```
C:\Users\sruja\OneDrive\Documents\DAA-LAB\6-Hamiltonian circuit-D4.cpp - Dev-C++ 5.11

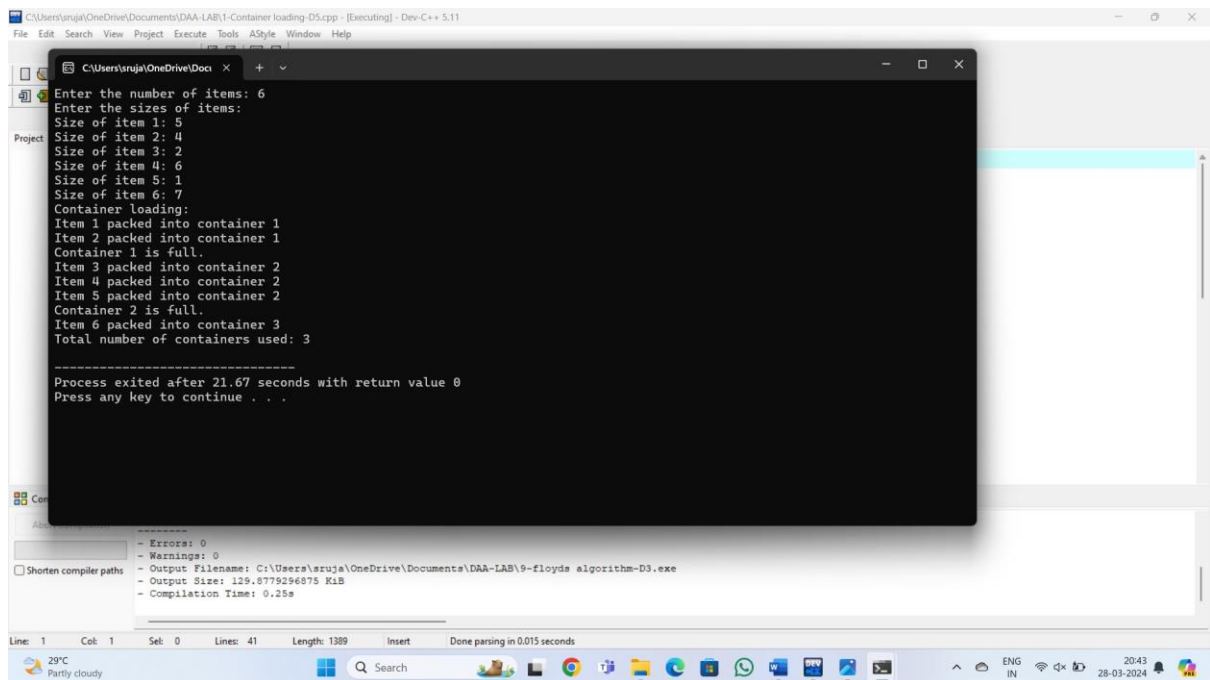
Hamiltonian Cycle found:
0 1 2 4 3 0

Process exited after 0.04966 seconds with return value 0
Press any key to continue . . .

Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\9-floyds algorithm-D3.exe
- Output Size: 129.8779296875 KiB
- Compilation Time: 0.25s
```

DAY-5

OUTPUT 1-



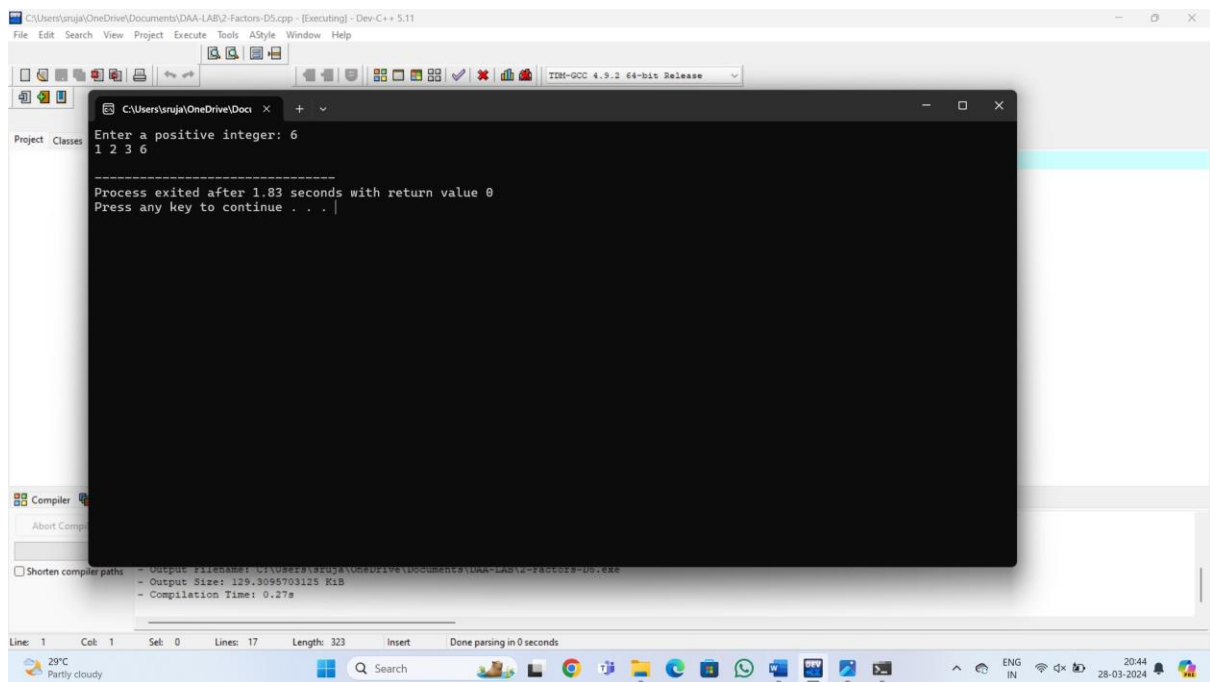
```
C:\Users\sruja\OneDrive\Documents\DAA-LAB\1-Container loading-D5.cpp - [Executing] - Dev-C++ 5.11

Enter the number of items: 6
Enter the sizes of items:
Size of item 1: 5
Size of item 2: 4
Size of item 3: 2
Size of item 4: 6
Size of item 5: 1
Size of item 6: 7
Container loading:
Item 1 packed into container 1
Item 2 packed into container 1
Container 1 is full.
Item 3 packed into container 2
Item 4 packed into container 2
Item 5 packed into container 2
Container 2 is full.
Item 6 packed into container 3
Total number of containers used: 3

Process exited after 21.67 seconds with return value 0
Press any key to continue . . .

Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruja\OneDrive\Documents\DAA-LAB\9-floyds algorithm-D3.exe
- Output Size: 129.8779296875 KiB
- Compilation Time: 0.25s
```

OUTPUT 2-



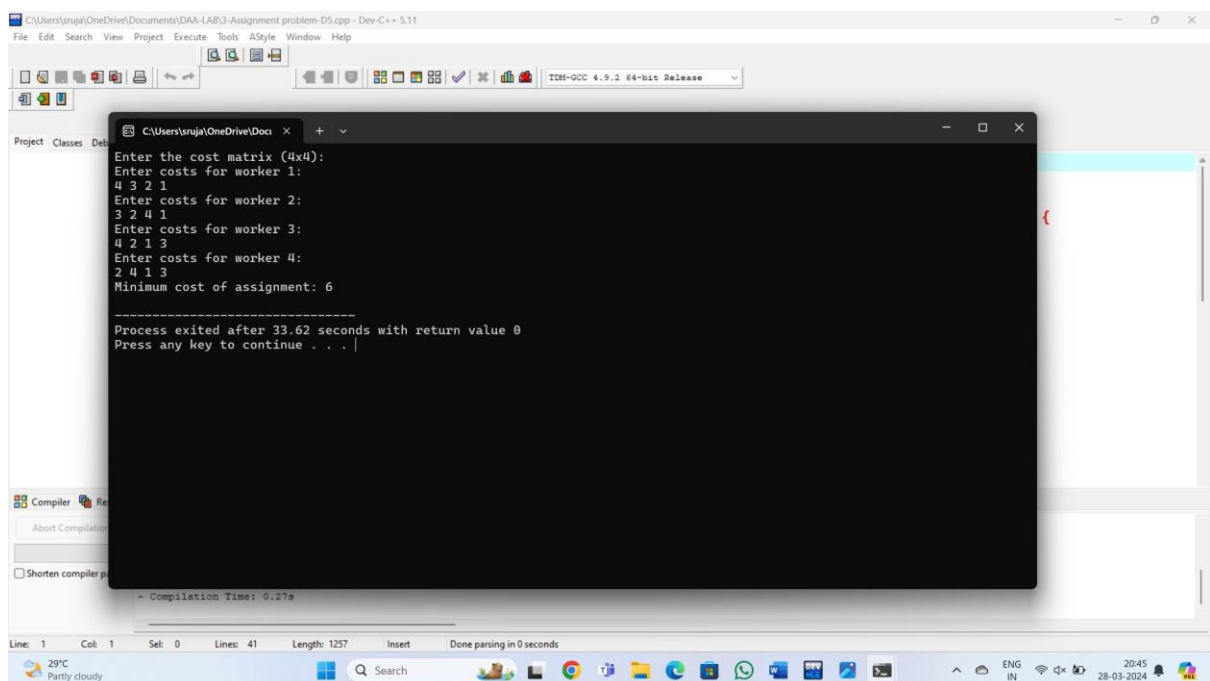
The screenshot shows a C++ IDE with a terminal window open. The terminal displays the following text:

```
Enter a positive integer: 6
1 2 3 6

-----
Process exited after 1.83 seconds with return value 0
Press any key to continue . . .
```

The IDE's status bar at the bottom indicates the file is `C:\Users\suraj\OneDrive\Documents\DAA-LAB2-Factors-D5.cpp`, the compiler is `g++`, and the output file is `C:\Users\suraj\OneDrive\Documents\DAA-LAB2-Factors-D5.exe`. The output size is 129,309,570,3125 KiB, and the compilation time is 0.27s.

OUTPUT 3-



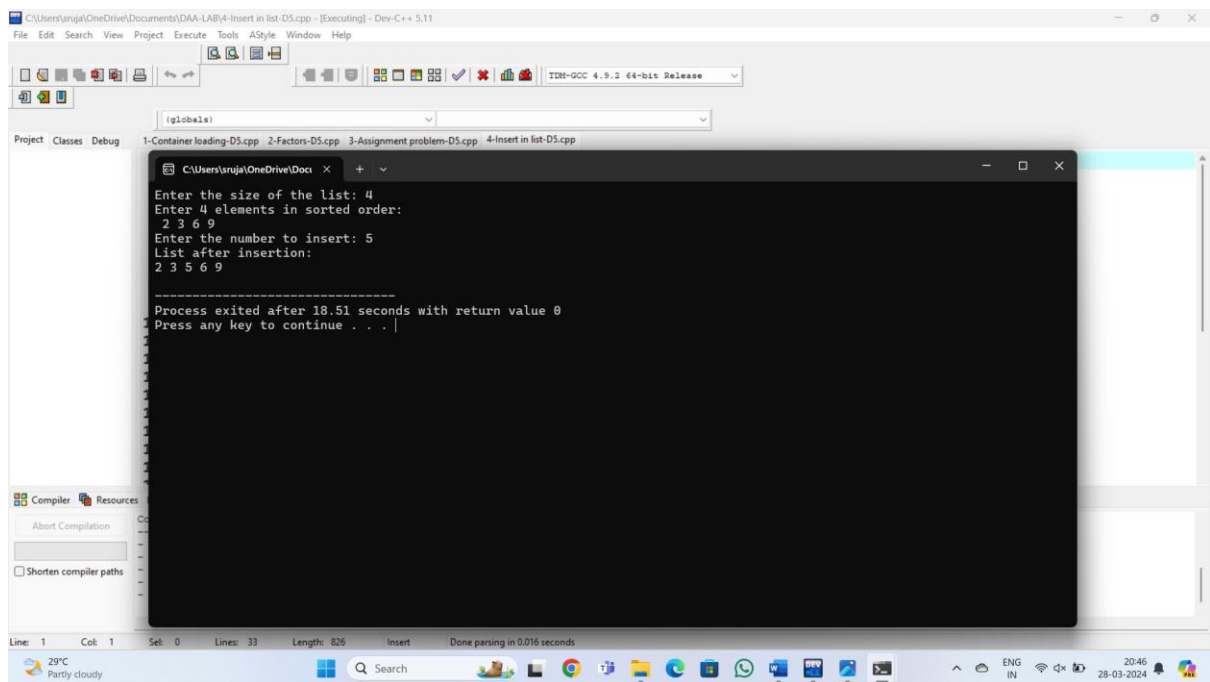
The screenshot shows a C++ IDE with a terminal window open. The terminal displays the following text:

```
Enter the cost matrix (4x4):
Enter costs for worker 1:
4 3 2 1
Enter costs for worker 2:
3 2 4 1
Enter costs for worker 3:
4 2 1 3
Enter costs for worker 4:
2 4 1 3
Minimum cost of assignment: 6

-----
Process exited after 33.62 seconds with return value 0
Press any key to continue . . .
```

The IDE's status bar at the bottom indicates the file is `C:\Users\suraj\OneDrive\Documents\DAA-LAB3-Assignment problem-D5.cpp`, the compiler is `g++`, and the output file is `C:\Users\suraj\OneDrive\Documents\DAA-LAB3-Assignment problem-D5.exe`. The output size is 129,309,570,3125 KiB, and the compilation time is 0.27s.

OUTPUT 4-



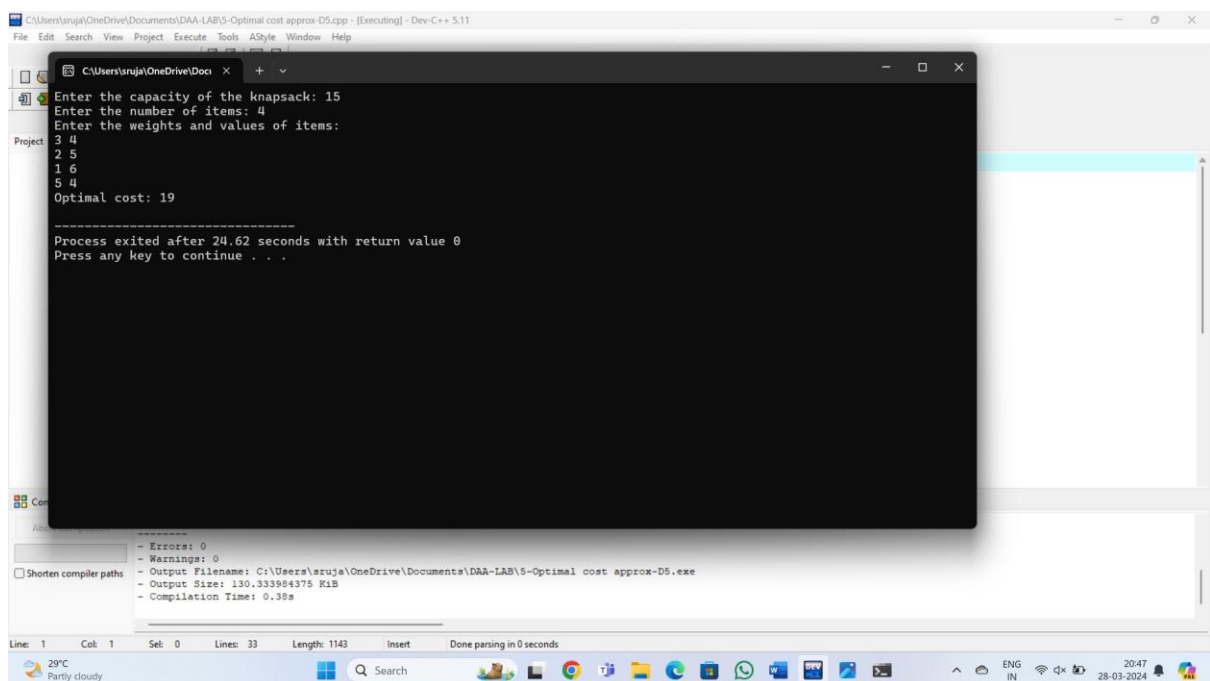
The screenshot shows a C++ IDE with a terminal window displaying the following output:

```
Enter the size of the list: 4
Enter 4 elements in sorted order:
2 3 6 9
Enter the number to insert: 5
List after insertion:
2 3 5 6 9

-----
Process exited after 18.51 seconds with return value 0
Press any key to continue . . . |
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing the current line and column (Line: 1, Col: 1).

OUTPUT 5-



The screenshot shows a C++ IDE with a terminal window displaying the following output:

```
Enter the capacity of the knapsack: 15
Enter the number of items: 4
Enter the weights and values of items:
3 4
2 5
1 6
5 4
Optimal cost: 19

-----
Process exited after 24.62 seconds with return value 0
Press any key to continue . . .
```

The IDE interface includes a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help), a toolbar, and a status bar at the bottom showing the current line and column (Line: 1, Col: 1). A compiler output window at the bottom shows the following details:

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\sruga\OneDrive\Documents\DAAB\5-Optimal cost approx-D5.exe
- Output Size: 130.333964375 KiB
- Compilation Time: 0.38s
```