```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab1-1.c -o lab1-1 } ; if ($?) { .\lab1-1 }
Enter the size of the array: 6
Enter 6 elements for the array:
Element 1: 54
Element 2: 42
Element 3: 98
Element 4: 73
Element 5: 47
Element 6: 12
Enter the target element to search: 47
Element 47 found at index 4.
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab1-1.c -o lab1-1 } ; if ($?) { .\lab1-1 }
Enter the size of the array: 5
Enter 5 elements for the array:
Element 1: 71
Element 2: 39
Element 3: 23
Element 4: 09
Element 5: 14
Enter the target element to search: 09
Element 9 found at index 3.
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab1-2.c -o lab1-2 } ; if ($?) { .\lab1-2 }
Enter the size of the array: 7
Enter 7 sorted elements for the array:
Element 1: 21
Element 2: 35
Element 3: 57
Element 4: 59
Element 5: 75
Element 6: 81
Element 7: 99
Enter the target element to search: 99
Element 99 found at index 6.
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab1-2.c -o lab1-2 } ; if ($?) { .\lab1-2 }
Enter the size of the array: 5
Enter 5 sorted elements for the array:
Element 1: 54
Element 2: 78
Element 3: 81
Element 4: 93
Element 5: 97
Enter the target element to search: 81
Element 81 found at index 2.
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab2-1.c -o lab2-1 } ; if ($?) { .\lab2-1 }
Enter the size of the array: 6
Enter 6 elements for the array:
Element 1: 78
Element 2: 33
Element 3: 99
Element 4: 12
Element 5: 0
Element 6: 93
Sorted array: 0 12 33 78 93 99
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab2-1.c -o lab2-1 } ; if ($?) { .\lab2-1 }
Enter the size of the array: 10
Enter 10 elements for the array:
Element 1: 98
Element 2: 84
Element 3: 76
Element 4: 54
Element 5: 65
Element 6: 49
Element 7: 34
Element 8: 26
Element 9: 12
Element 10: 7
Sorted array: 7 12 26 34 49 54 65 76 84 98
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab2-2.c -o lab2-2 } ; if ($?) { .\lab2-2 }
Enter the size of the array: 8
Enter 8 elements for the array:
Element 1: 75
Element 2: 15
Element 3: 76
Element 4: 99
Element 5: 45
Element 6: 61
Element 7: 79
Element 8: 31
Sorted array: 15 31 45 61 75 76 79 99
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab2-2.c -o lab2-2 } ; if ($?) { .\lab2-2 }
Enter the size of the array: 5
Enter 5 elements for the array:
Element 1: 32
Element 2: 97
Element 3: 65
Element 4: 65
Element 5: 41
Sorted array: 32 41 65 65 97
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> 
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab2-3.c -o lab2-3 } ; if ($?) { .\lab2-3 }
Enter the size of the array: 7
Enter 7 elements for the array:
Element 1: 32
Element 2: 75
Element 3: 99
Element 4: 84
Element 5: 16
Element 6: 73
Element 7: 12
Sorted array: 12 16 32 73 75 84 99
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab2-3.c -o lab2-3 } ; if ($?) { .\lab2-3 }
Enter the size of the array: 6
Enter 6 elements for the array:
Element 1: 17
Element 2: 98
Element 3: 76
Element 4: 35
Element 5: 41
Element 6: 65
Sorted array: 17 35 41 65 76 98
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> 
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab3-1.c -o lab3-1 } ; if ($?) { .\lab3-1 }
Enter the size of the array: 7
Enter 7 elements for the array:
Element 1: 97
Element 2: 43
Element 3: 15
Element 4: 74
Element 5: 62
Element 6: 19
Element 7: 46
Sorted array: 15 19 43 46 62 74 97
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab3-1.c -o lab3-1 } ; if ($?) { .\lab3-1 }
Enter the size of the array: 6
Enter 6 elements for the array:
Element 1: 31
Element 2: 98
Element 3: 75
Element 4: 46
Element 5: 18
Element 6: 74
Sorted array: 18 31 46 74 75 98
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> 
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab3-2.c -o lab3-2 } ; if ($?) { .\lab3-2 }
Enter the size of the array: 7
Enter 7 elements for the array:
Element 1: 99
Element 2: 88
Element 3: 77
Element 4: 66
Element 5: 55
Element 6: 44
Element 7: 33
Sorted array: 33 44 55 66 77 88 99
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab3-2.c -o lab3-2 } ; if ($?) { .\lab3-2 }
Enter the size of the array: 7
Enter 7 elements for the array:
Element 1: 46
Element 2: 68
Element 3: 75
Element 4: 15
Element 5: 37
Element 6: 49
Element 7: 13
Sorted array: 13 15 37 46 49 68 75
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> █
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab4-1.c -o lab4-1 } ; if ($?) { .\lab4-1 }
Enter the size of the array: 8
Enter 8 elements for the array:
Element 1: 31
Element 2: 75
Element 3: 49
Element 4: 13
Element 5: 75
Element 6: 26
Element 7: 21
Element 8: 76
Sorted array: 13 21 26 31 49 75 75 76
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab4-1.c -o lab4-1 } ; if ($?) { .\lab4-1 }
Enter the size of the array: 5
Enter 5 elements for the array:
Element 1: 42
Element 2: 84
Element 3: 35
Element 4: 76
Element 5: 49
Sorted array: 35 42 49 76 84
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> █
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab4-2.c -o lab4-2 } ; if ($?) { .\lab4-2 }
Enter the size of the array: 7
Enter 7 elements for the array:
Element 1: 94
Element 2: 76
Element 3: 16
Element 4: 765
Element 5: 165
Element 6: 35
Element 7: 546
Sorted array: 16 35 76 94 165 546 765
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab4-2.c -o lab4-2 } ; if ($?) { .\lab4-2 }
Enter the size of the array: 9
Enter 9 elements for the array:
Element 1: 15
Element 2: 43
Element 3: 46
Element 4: 75
Element 5: 94
Element 6: 36
Element 7: 94
Element 8: 59
Element 9: 56
Sorted array: 15 36 43 46 56 59 75 94 94
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> █
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab5-1.c -o lab5-1 } ; if ($?) { .\lab5-1 }
Enter the size of the array: 7
Enter 7 elements for the array:
Element 1: 95
Element 2: 75
Element 3: 16
Element 4: 34
Element 5: 75
Element 6: 16
Element 7: 64
Sorted array: 16 16 34 64 75 75 95
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab5-1.c -o lab5-1 } ; if ($?) { .\lab5-1 }
Enter the size of the array: 5
Enter 5 elements for the array:
Element 1: 16
Element 2: 3
Element 3: 84
Element 4: 94
Element 5: 64
Sorted array: 3 16 64 84 94
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab5-2.c -o lab5-2 } ; if ($?) { .\lab5-2 }
Enter the size of the array: 9
Enter 9 elements for the array:
Element 1: 64
Element 2: 45
Element 3: 74
Element 4: 13
Element 5: 21
Element 6: 46
Element 7: 94
Element 8: 75
Element 9: 65
Sorted array: 13 21 45 46 64 65 74 75 94
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C\" ; if ($?) { g
cc lab5-2.c -o lab5-2 } ; if ($?) { .\lab5-2 }
Enter the size of the array: 6
Enter 6 elements for the array:
Element 1: 15
Element 2: 785
Element 3: 36
Element 4: 49
Element 5: 75
Element 6: 785
Sorted array: 15 36 49 75 785 785
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab6-1.c -o lab6-1 } ; if ($?) { .\lab6-1 }
Selected Activity :
-------------------------------------------
  P1  |  P2  |  P4  |  P5  |  P7  |  P8  |
-------------------------------------------
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab6-2.c -o lab6-2 } ; if ($?) { .\lab6-2 }
Selecting Items :
Added item { value:  200 , weight :   10 } to bag
Added item { value:   60 , weight :   10 } to bag
Added item { value:   50 , weight :   10 } to bag
Added item { value:  100 , weight :   20 } to bag
Maximum value: 410.00
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab7-1.c -o lab7-1 } ; if ($?) { .\lab7-1 }
Selected items:
Item { value: 200 , weight: 10}
Item { value: 50 , weight: 10}
Item { value: 100 , weight: 20}
Item { value: 60 , weight: 10}

Maximum value: 410
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab7-2.c -o lab7-2 } ; if ($?) { .\lab7-2 }
Length of LCS: 4
Longest Common Subsequence: BDAB
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SEARCH ERROR

PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab8-1.c -o lab8-1 } ; if ($?) { .\lab8-1 }
Enter the number of vertices in the graph: 6
Enter the number of edges in the graph: 9
Enter the edges (source destination weight) of the graph:
0 1 2
0 2 3
1 2 5
1 3 6
2 3 8
2 4 7
3 4 9
3 5 10
4 5 1
Edge   Weight
4 - 5   1
0 - 1   2
0 - 2   3
1 - 3   6
2 - 4   7
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SEARCH ERROR

PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab8-2.c -o lab8-2 } ; if ($?) { .\lab8-2 }
Enter the number of vertices in the graph: 5
Enter the adjacency matrix for the graph:
0 2 0 6 0
2 0 3 8 5
0 3 0 0 7
6 8 0 0 9
0 5 7 9 0
Edge   Weight
0 - 1   2
1 - 2   3
0 - 3   6
1 - 4   5
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS   SEARCH ERROR

PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab9-1.c -o lab9-1 } ; if ($?) { .\lab9-1 }
The following matrix shows the shortest distances between every pair of vertices
      0   5   8   9
    INF   0   3   4
    INF   INF   0   1
    INF   INF   INF   0
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C>

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab9-2.c -o lab9-2 } ; if ($?) { .\lab9-2 }
Enter the number of vertices in the graph: 5
Enter the adjacency matrix for the graph:
0 3 0 7 0
3 0 2 0 0
0 2 0 1 8
7 0 1 0 4
0 0 8 4 0
Enter the source vertex: 0
Vertex   Distance from Source
0                0
1                3
2                5
3                6
4                10
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> 
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab10-1.c -o lab10-1 } ; if ($?) { .\lab10-1 }
Enter the value of N for N-Queens: 6
. . . Q . .
Q . . . . .
. . . . Q .
. Q . . . .
. . . . . Q
. . Q . . .

. . . . Q .
. . Q . . .
Q . . . . .
. . . . . Q
. . . Q . .
. Q . . . .

. Q . . . .
. . . Q . .
. . . . . Q
Q . . . . .
. . Q . . .
. . . . Q .

. . Q . . .
. . . . . Q
. Q . . . .
. . . . Q .
Q . . . . .
. . . Q . .
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> 
```

```
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab10-2.c -o lab10-2 } ; if ($?) { .\lab10-2 }
Enter the number of elements in the set: 5
Enter the elements of the set:
7 4 12 9 5
Enter the target sum: 16                 Open folder in new window (ctrl + click)
Found a subset with the given sum
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> cd "c:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C\" ; if
($?) { gcc lab10-2.c -o lab10-2 } ; if ($?) { .\lab10-2 }
Enter the number of elements in the set: 7
Enter the elements of the set:
5 9 14 10 4 13 1
Enter the target sum: 14
Found a subset with the given sum
PS C:\Users\tripa\Downloads\DAA-LAB-PY-GRAPH-main (1)\DAA-LAB-PY-GRAPH-main\C> 
```