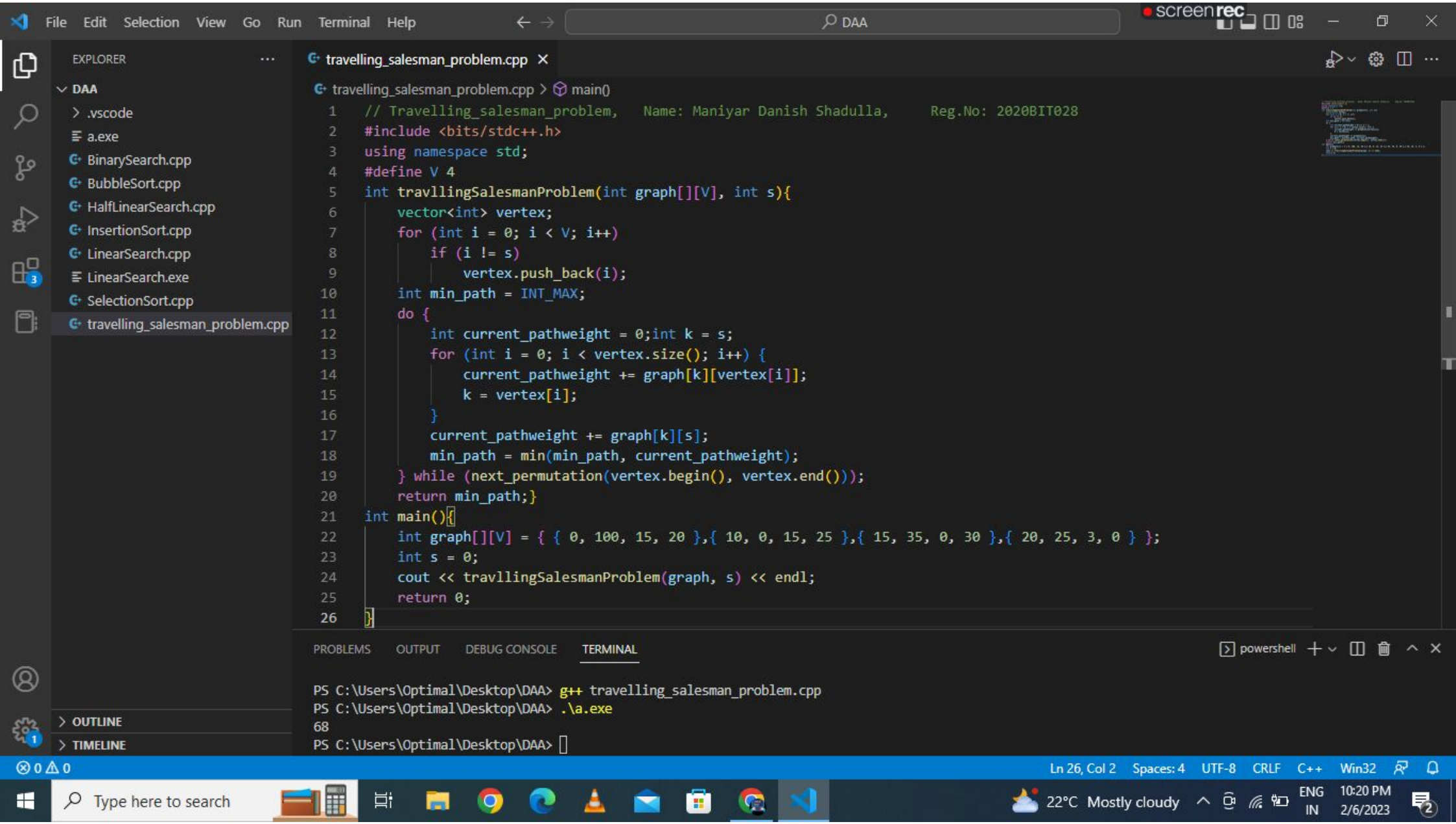
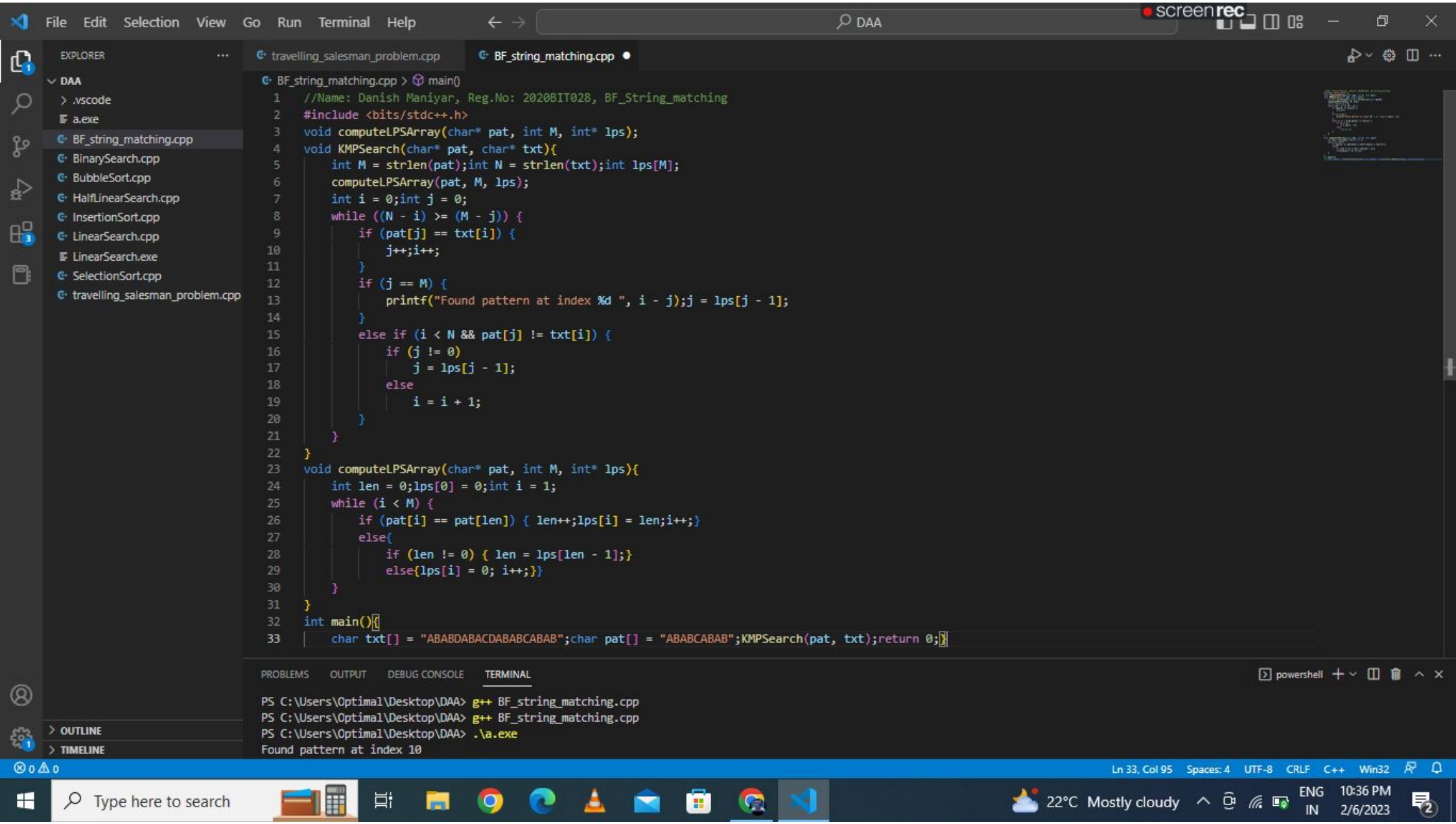
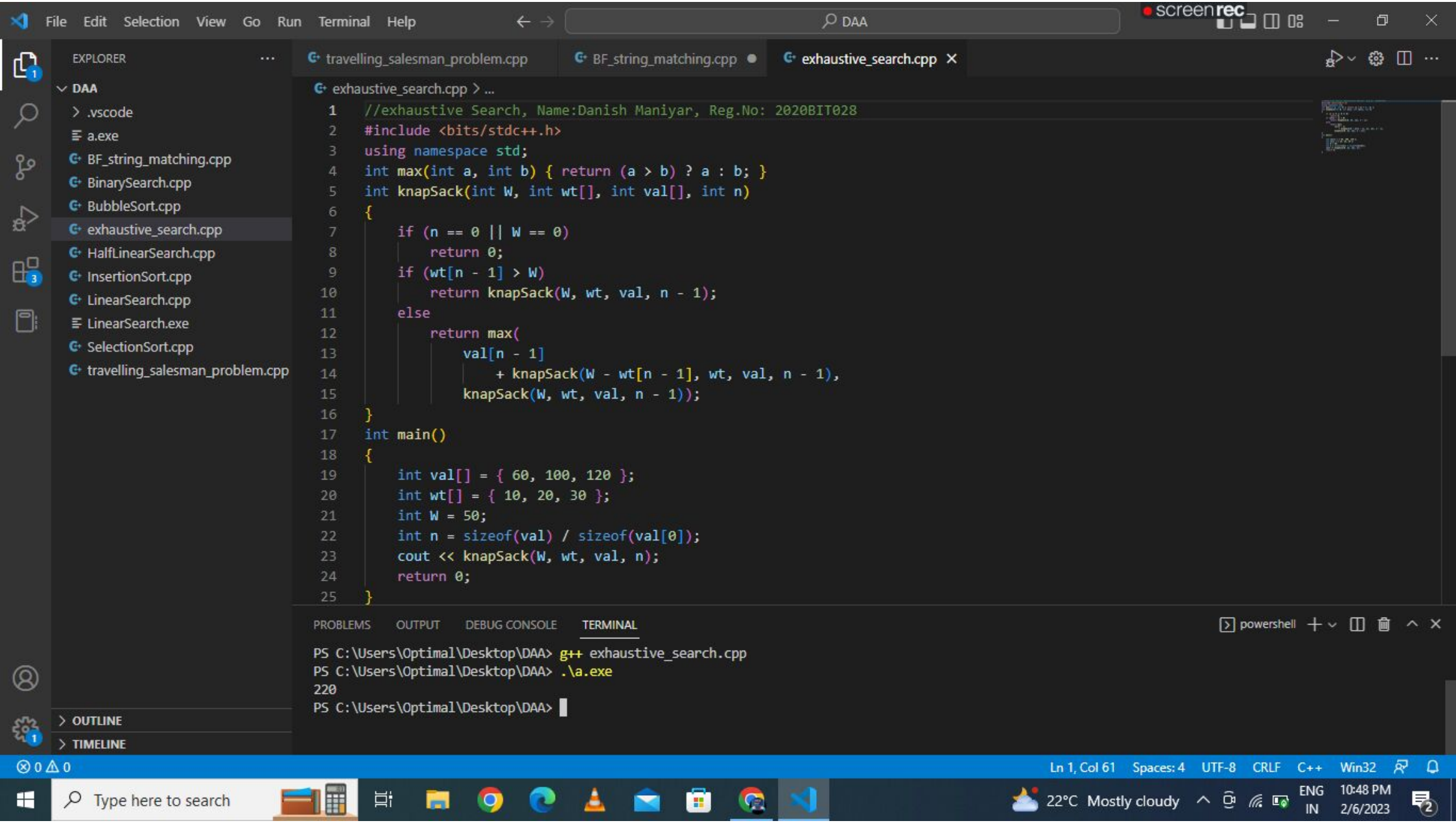

File Edit Selection View Go Run Terminal Help
DAA
EXPLORER
DAA
.vscode
a.exe
BinarySearch.cpp
BubbleSort.cpp
HalfLinearSearch.cpp
InsertionSort.cpp
LinearSearch.cpp
LinearSearch.exe
SelectionSort.cpp
travelling_salesman_problem.cpp
OUTLINE
TIMELINE
travelling_salesman_problem.cpp
travelling_salesman_problem.cpp > main()
1 // Travelling_salesman_problem, Name: Maniyar Danish Shadulla, Reg.No: 2020BIT028
2 #include <bits/stdc++.h>
3 using namespace std;
4 #define V 4
5 int travllingSalesmanProblem(int graph[][V], int s){
6 vector<int> vertex;
7 for (int i = 0; i < V; i++)
8 if (i != s)
9 vertex.push_back(i);
10 int min_path = INT_MAX;
11 do {
12 int current_pathweight = 0;int k = s;
13 for (int i = 0; i < vertex.size(); i++) {
14 current_pathweight += graph[k][vertex[i]];
15 k = vertex[i];
16 }
17 current_pathweight += graph[k][s];
18 min_path = min(min_path, current_pathweight);
19 } while (next_permutation(vertex.begin(), vertex.end()));
20 return min_path;}
21 int main(){
22 int graph[][V] = { { 0, 100, 15, 20 },{ 10, 0, 15, 25 },{ 15, 35, 0, 30 },{ 20, 25, 3, 0 } };
23 int s = 0;
24 cout << travllingSalesmanProblem(graph, s) << endl;
25 return 0;
26 }
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
powershell
PS C:\Users\Optimal\Desktop\DAA> g++ travelling_salesman_problem.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
68
PS C:\Users\Optimal\Desktop\DAA>
Ln 26, Col 2 Spaces: 4 UTF-8 CRLF C++ Win32
Type here to search
22°C Mostly cloudy
ENG IN
10:20 PM 2/6/2023


File Edit Selection View Go Run Terminal Help
DAA
EXPLORER
DAA
.vscode
a.exe
BF_string_matching.cpp
BinarySearch.cpp
BubbleSort.cpp
HalfLinearSearch.cpp
InsertionSort.cpp
LinearSearch.cpp
LinearSearch.exe
SelectionSort.cpp
travelling_salesman_problem.cpp
travelling_salesman_problem.cpp
BF_string_matching.cpp
BF_string_matching.cpp > main()
//Name: Danish Maniyar, Reg.No: 2020BIT028, BF_String_matching
#include <bits/stdc++.h>
void computeLPSArray(char* pat, int M, int* lps);
void KMPSearch(char* pat, char* txt){
int M = strlen(pat);int N = strlen(txt);int lps[M];
computeLPSArray(pat, M, lps);
int i = 0;int j = 0;
while ((N - i) >= (M - j)) {
if (pat[j] == txt[i]) {
j++;i++;
}
if (j == M) {
printf("Found pattern at index %d ", i - j);j = lps[j - 1];
}
else if (i < N && pat[j] != txt[i]) {
if (j != 0)
j = lps[j - 1];
else
i = i + 1;
}
}
}
void computeLPSArray(char* pat, int M, int* lps){
int len = 0;lps[0] = 0;int i = 1;
while (i < M) {
if (pat[i] == pat[len]) { len++;lps[i] = len;i++;}
else{
if (len != 0) { len = lps[len - 1];}
else{lps[i] = 0; i++;}}
}
}
int main(){
char txt[] = "ABABDABACDABABCABAB";char pat[] = "ABABCABAB";KMPSearch(pat, txt);return 0;}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
powershell
PS C:\Users\Optimal\Desktop\DAA> g++ BF_string_matching.cpp
PS C:\Users\Optimal\Desktop\DAA> g++ BF_string_matching.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
Found pattern at index 10
OUTLINE
TIMELINE
Ln 33, Col 95 Spaces: 4 UTF-8 CRLF C++ Win32
Type here to search
22°C Mostly cloudy
ENG IN
10:36 PM 2/6/2023


File Edit Selection View Go Run Terminal Help
DAA
screenrec
EXPLORER
DAA
.vscode
a.exe
BF_string_matching.cpp
BinarySearch.cpp
BubbleSort.cpp
exhaustive_search.cpp
HalfLinearSearch.cpp
InsertionSort.cpp
LinearSearch.cpp
LinearSearch.exe
SelectionSort.cpp
travelling_salesman_problem.cpp
OUTLINE
TIMELINE
travelling_salesman_problem.cpp
BF_string_matching.cpp
exhaustive_search.cpp
exhaustive_search.cpp > ...
1 //exhaustive Search, Name:Danish Maniyar, Reg.No: 2020BIT028
2 #include <bits/stdc++.h>
3 using namespace std;
4 int max(int a, int b) { return (a > b) ? a : b; }
5 int knapSack(int W, int wt[], int val[], int n)
6 {
7 if (n == 0 || W == 0)
8 return 0;
9 if (wt[n - 1] > W)
10 return knapSack(W, wt, val, n - 1);
11 else
12 return max(
13 val[n - 1]
14 + knapSack(W - wt[n - 1], wt, val, n - 1),
15 knapSack(W, wt, val, n - 1));
16 }
17 int main()
18 {
19 int val[] = { 60, 100, 120 };
20 int wt[] = { 10, 20, 30 };
21 int W = 50;
22 int n = sizeof(val) / sizeof(val[0]);
23 cout << knapSack(W, wt, val, n);
24 return 0;
25 }
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
powershell
PS C:\Users\Optimal\Desktop\DAA> g++ exhaustive_search.cpp
PS C:\Users\Optimal\Desktop\DAA> .\a.exe
220
PS C:\Users\Optimal\Desktop\DAA>
Ln 1, Col 61
Spaces: 4
UTF-8
CRLF
C++
Win32
Type here to search
22°C Mostly cloudy
ENG
IN
10:48 PM
2/6/2023