



CHANDIGARH UNIVERSITY UNIVERSITY INSTITUTE OF NGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Vivek Kumar(21BC	Submitted To: Neha Dutta(E12830)
Subject Name	Design and Analysis of Algorithm Lab
Subject Code	20CSP-312
Branch	Computer Science and Engineering
Semester	5 th







Experiment - 10

Student Name: Vivek Kumar UID: 21BCS8129

Branch: BE-CSE(LEET)
Semester: 5th
Section/Group: 20BCS-WM-616/A
Date of Performance: 07/11/2022

Subject Name: DAA Lab Subject Code: 20CSP-312

1. Aim/Overview of the practical:

Code and Analyze to find all occurrences of a pattern P in a given string S.

2. Task to be done/ Which logistics used:

Code and Analyze to find all occurrences of a pattern P in a given string S.

3. Requirements (For programming-based labs):

- Laptop or PC.
- Operation system (Mac, Windows, Linux, or any)
- Vs-Code with MinGw or any C++ Compiler

4. Steps for experiment/practical/Code:

```
#include <bits/stdc++.h>
using namespace std;

/*
Function to find
All occurrences of the pattern in the string
*/
void solve(string str, string pat)
{

    // Initialising N and M
    int n = str.size();
    int m = pat.size();

    // Iterating over the string
    for (int i = 0; i < n; i++)
    {

        // Iterating over the pattern
        for (int j = 0; j < m; j++)
        {
</pre>
```



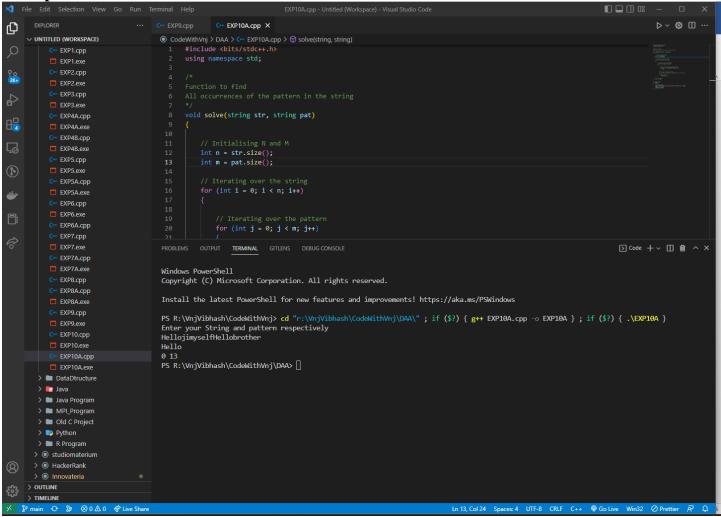








5. Output:



Learning outcomes (What I have learnt):

1. How to solve the Pattern Matching Algorithm using dynamic programming.

Evaluation Grid (To be created per the faculty's SOP and Assessment guidelines):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Worksheet completion including writing learning objectives/Outcomes. (To be submitted at the end of the day).		
2.	Post-Lab Quiz Result.		
3.	Student Engagement in Simulation/Demonstration/Performance and Controls/Pre-Lab Questions.		







Signature of Faculty (with Date):	Total Marks Obtained:	

