**AIM :** Write a program to implement Bellman Ford Algorithm and analyze its complexity.

**SOURCE CODE :**

#include<iostream.h>

#include<conio.h>

#include <string.h>

void search(char\* pat, char\* txt)

{

int M = strlen(pat); int N = strlen(txt);

for (int i = 0; i <= N - M; i++)

{

int j;

for (j = 0; j < M; j++)

if (txt[i + j] != pat[j]) break;

if (j == M)

cout<<"Pattern found at index "<< i<<"\n";

}

}

int main()

{ clrscr();

char txt[] = "AABAACAADAABAAABAA";

char pat[] = "AABAAA"; search(pat, txt);

getch(); return 0;

}