

## DATA STRUCTURE AND ALOGRITHUM

## Lab Report

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# Experiment # 1 ADJANCY MATRIX

#### Objective

To understand the implementation of adjancy matrix.

#### **Software Tool**

1.

DEV C++

### 1 Theory

1. This algorithm takes the input of the number of vertex. 2. For each pair of vertex ask user whether they are connected or not. 3. Print the adjacency matrix. 4. Exit.

#### 2 Task

#### 2.1 Procedure: Task 1

```
### Commercial Commerc
```

Figure 1: Time Independent Feature Set

```
// Print 1 {f if} the corresponding vertexes are connected otherwise 0
          for(i = 0; i < n; i++)
           {
                      cout << setw(3) << "("<< i+1<<")";
                     for(j = 0; j < n; j++)
                                cout <\!\!<\!\!setw\left(4\right) <\!\!<\!\!mat\left[\ i\ \right]\left[\ j\ \right];
                     cout << " \n \n";
          }
}
int main()
          \mathbf{int} \quad i \ , \quad j \ , \quad v \ ;
          cout << "Enter_the_number_of_vertexes:_";
          cin >> v;
                mat [20][20];
          int
          cout << " \ n";
          // Take input of the adjacency of each pair of vertexes.
          for(i = 0; i < v; i++)
```

## 3 Conclusion

in this lab we perform adjancy matrix that which vertix connected to which vertix and dispaly them in matrix form