https://lh5.googleusercontent.com/dplghwJq6X4fhzS5H6mFhAFj9x6vI-Y8xCT8NFOTS1m1Xqxiq7nkadVUnCPhdF0ePu4loIUkqVjtvmt0NXfO2k9ohAj4vSqxuecZS-EBDoWiRGD-hgPkQa4QEs6nQaUoqsWtkTeeVLr0namIZbmEyQhttps://lh3.googleusercontent.com/BTBdPiSJjxGslQH3BeZD4BaoJZ39HCgQmAhUsT_pMmuCBkQpXF4Oufxkc29xElrbY7UOC_t-XYD8wCe8-xr0WMFCu3DhySoqaYXxkDd4zDvRd6uFglNfbvwNH7fYiWW7sNqHblYmu1wrAZV9wwFdXA

**GHARDA FOUNDATION**

**GHARDA INSTITUTE OF TECHNOLOGY, LAVEL**

Department of Computer Engineering

**Evaluation Sheet**

Class: TE-Computer Engineering Sem: V Subject: **Artificial Intelligence Lab(CSL604)**

Experiment No: 3

Title of Experiment: Study the implementation of Breadth First Search Algorithm.

Name of Student: Niraj Nitin Surve Roll No: 68

Date of Performance:

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Evaluation Criteria | Max Marks | Marks Obtained |
| 1 | Practical Performance | 8 |  |
| 2 | Oral | 5 |  |
| 3 | Timely Submission | 2 |  |
|  | Total | 15 |  |

                   Signature of Subject Teacher

     (Prof. M. A. Khandke)

**Program Code –**

n = int(input("Enter the number of nodes in graph: "))

graph = {}

for i in range(n):

key = input("Enter key for node: ")

value = list(map(str, input("Enter values separated by space: ").split()))

graph[key] = value

print("Graph: ", graph)

visited = []

queue = []

visited.append('0')

queue.append('0')

while queue:

s = queue.pop(0)

print (s, end = " ")

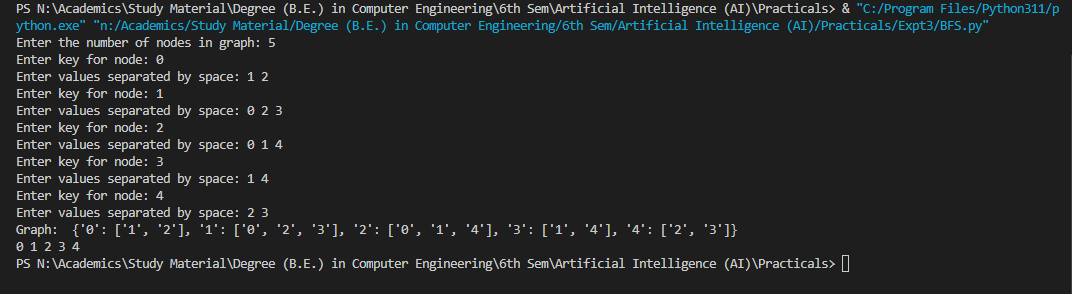
for frontier in graph[s]:

if frontier not in visited:

visited.append(frontier)

queue.append(frontier)

**Output –**

****