Assignment

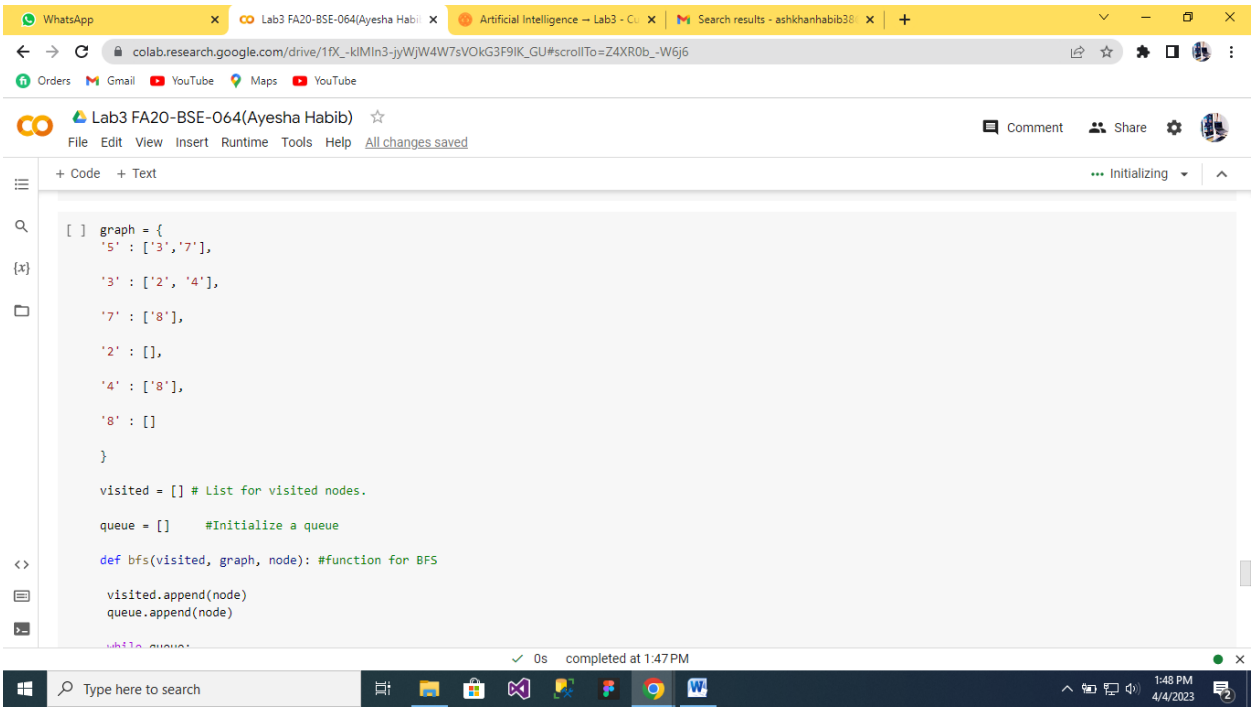
Submitted To: Mam Yasmeen Jana

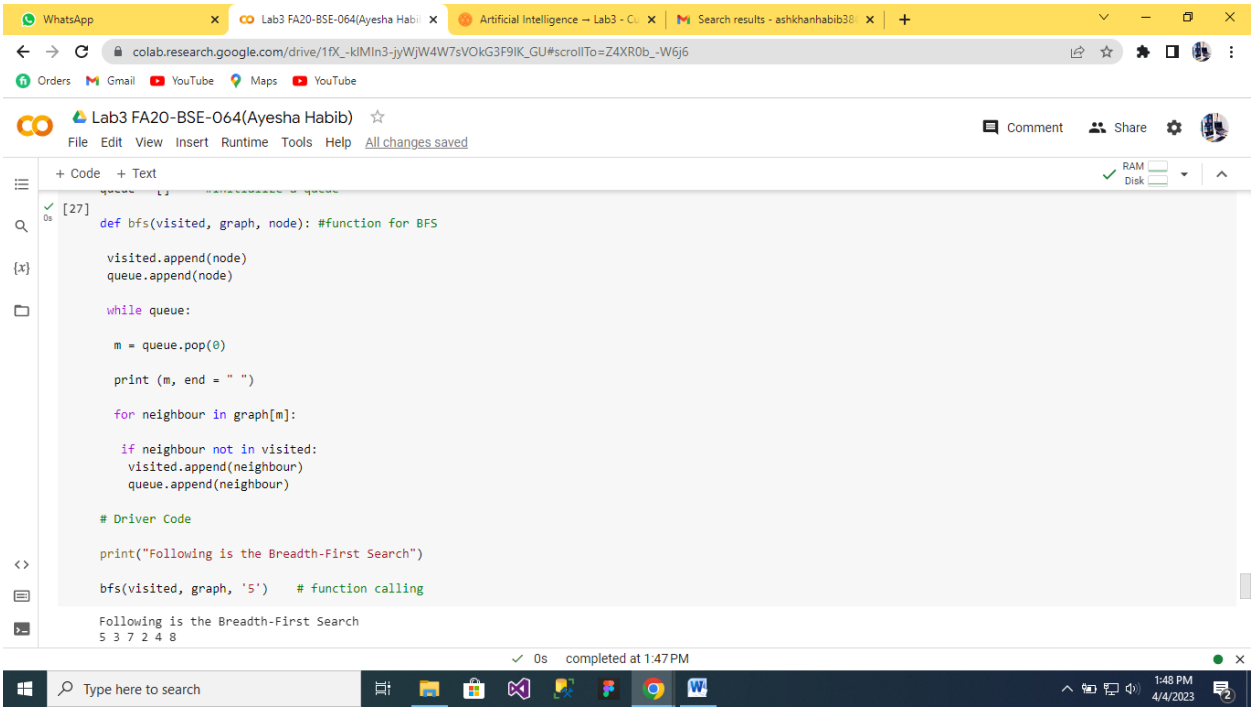
Submitted By: Ayesha Habib

Subject: Artificial Intelligence

Date: 4/4/2023

Activity 1




Lab3 FA20-BSE-064(Ayesha Habib)
File Edit View Insert Runtime Tools Help All changes saved
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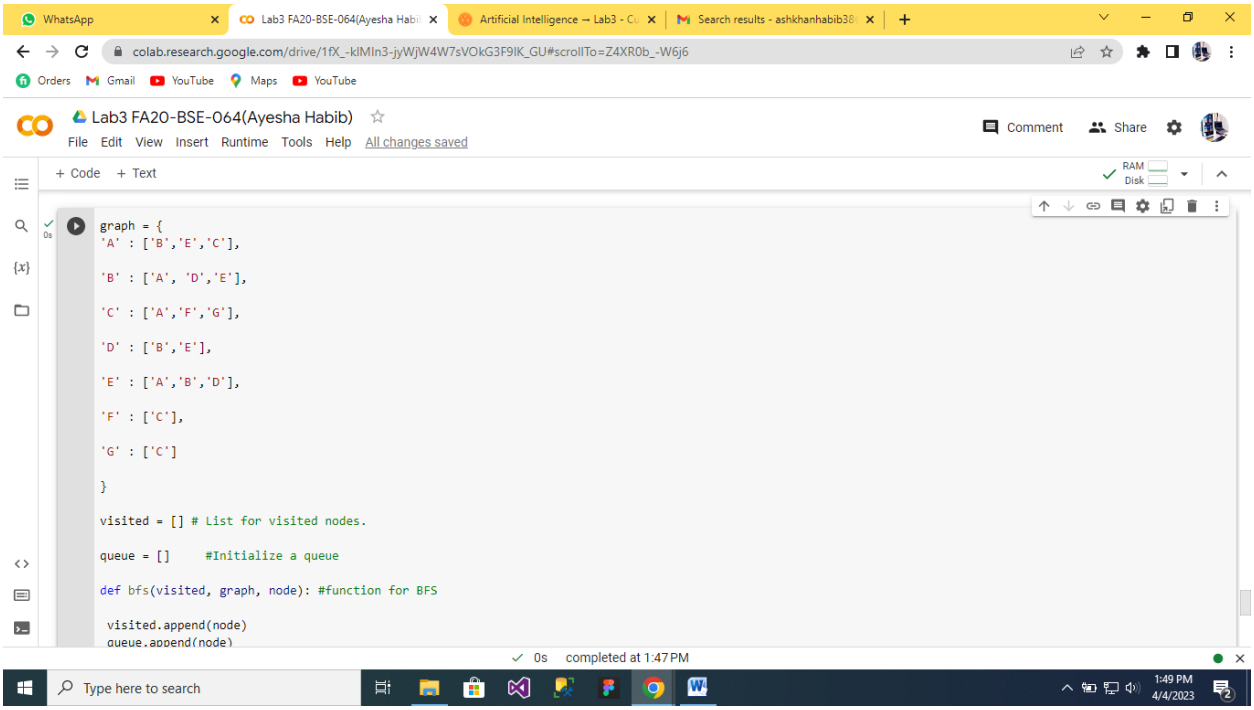
[27]
def bfs(visited, graph, node): #function for BFS
visited.append(node)
queue.append(node)
while queue:
m = queue.pop(0)
print (m, end = " ")
for neighbour in graph[m]:
if neighbour not in visited:
visited.append(neighbour)
queue.append(neighbour)
# Driver Code
print("Following is the Breadth-First Search")
bfs(visited, graph, '5') # function calling
Following is the Breadth-First Search
5 3 7 2 4 8
0s completed at 1:47 PM
Type here to search
1:48 PM
4/4/2023

Activity 2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graph = {
'A' : ['B','E','C'],
'B' : ['A', 'D','E'],
'C' : ['A','F','G'],
'D' : ['B','E'],
'E' : ['A','B','D'],
'F' : ['C'],
'G' : ['C']
}
visited = [] # List for visited nodes.
queue = [] #Initialize a queue
def bfs(visited, graph, node): #function for BFS
visited.append(node)
queue.append(node)
0s completed at 1:47 PM
Type here to search
1:49 PM
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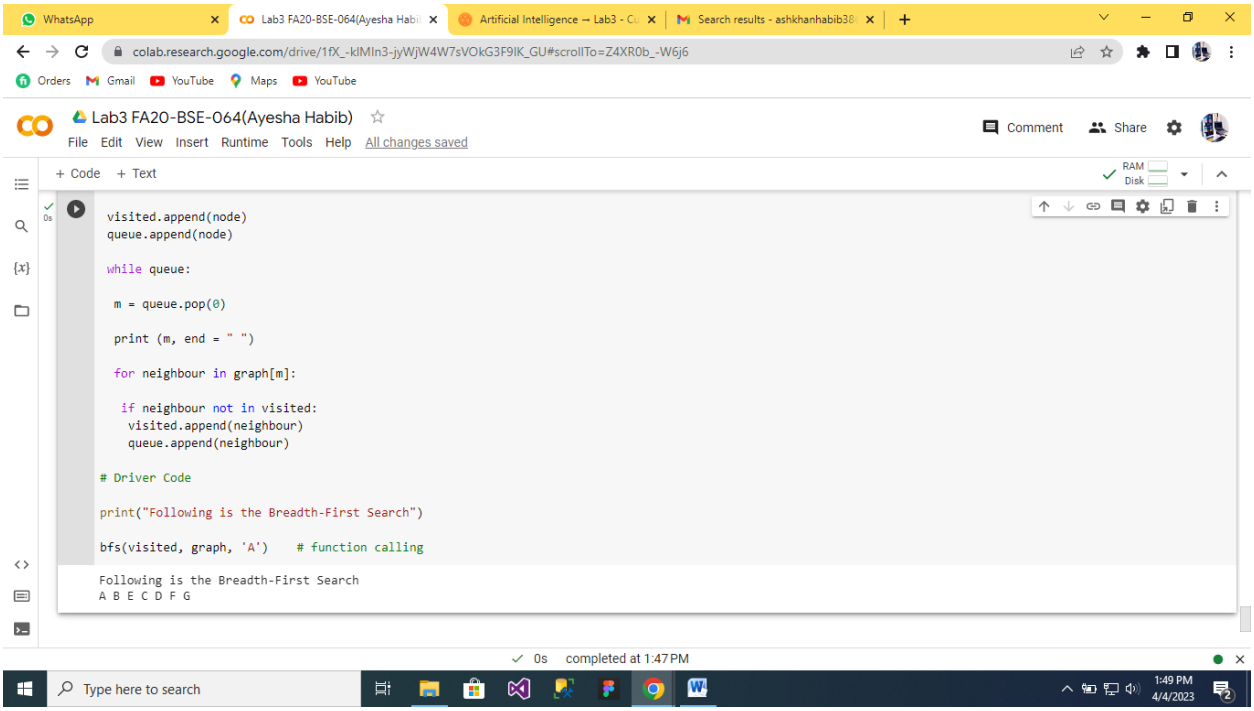
WhatsApp
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Artificial Intelligence – Lab3 - C
Search results - ashkhanhabib38
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RAM
Disk
visited.append(node)
queue.append(node)
while queue:
m = queue.pop(0)
print (m, end = " ")
for neighbour in graph[m]:
if neighbour not in visited:
visited.append(neighbour)
queue.append(neighbour)
# Driver Code
print("Following is the Breadth-First Search")
bfs(visited, graph, 'A') # function calling
Following is the Breadth-First Search
A B E C D F G
0s completed at 1:47 PM
Type here to search
1:49 PM
4/4/2023