ST.XAVIER’S COLLEGE

(Affiliated to Tribhuvan University)

Maitighar, Kathmandu



**AI LAB ASSIGNMENT #8**

**SUBMITTED BY:**

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4th Sem, 2nd Year

**SUBMITTED TO:**

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**1) Write a program to implement BFS and DFS.**

**Source Code**

graph={'S':[['A',6,4],['B',5,3]],'B':[['G',0,2],['C',6,3]],'A':[['G',0,3],['D',8,2]],'C':None,'G':None,'D':None}

#print(graph['S'][0][1])

fNode='S'

startNode='S'

nextNode=''

print(startNode)

while(fNode!='G'):

tempNode=''

tempLength=100000

try:

for i in graph[fNode]:

if(tempLength>i[1]+i[2]):

tempNode=i[0]

tempLength=i[1]+i[2]

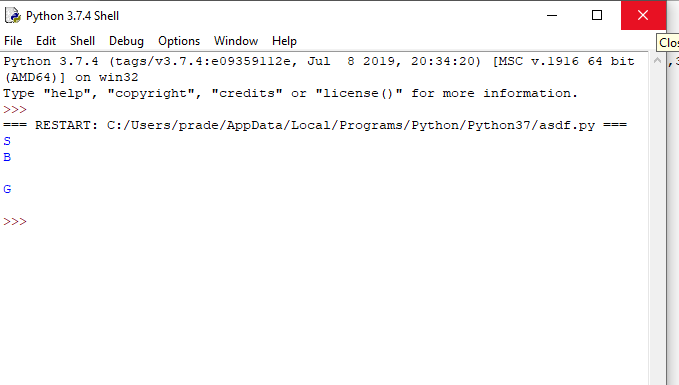
print(tempNode+'\n')

fNode=tempNode

except:

pass

**Screenshots**

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