EXPERIMENT – 07 BFS (generic)

AIM:

Implement breadth-first search for graphs.

CODE:

# bfs.py

from collections import deque

def bfs(graph,start):

visited=set([start]); q=deque([start]); order=[]

while q:

u=q.popleft(); order.append(u)

for v in graph.get(u,[]):

if v not in visited:

visited.add(v); q.append(v)

return order

if \_\_name\_\_=='\_\_main\_\_':

g={'A':['B','C'],'B':['D'],'C':['E'],'D':[],'E':[]}

print(bfs(g,'A')) # ['A','B','C','D','E']

OUTPUT:

