```python
# Program to multiply two matrices using
nested loops
# 3x3 matrix
X = [[1,1,1],
 [1 ,1,1],
 [1,1,1]]
# 3x4 matrix
Y = [[1,1,1,1],
 [1,1,1,1],
 [1,1,1,1]]
# result is 3x4
result = [[0,0,0,0],
 [0,0,0,0],
 [0,0,0,0]]
# iterate through rows of X
for i in range(len(X)):
 # iterate through columns of Y
 for j in range(len(Y[0])):
 # iterate through rows of Y
  for k in range(len(Y)):
   result[i][j] += X[i][k] * Y[k][j]
for r in result:
 print(r)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\Users\HP\OneDrive\Desktop\vs code progss> python -u "c:\Users\HP\OneDrive\Desktop\vs code progss\matrix_mul.py"
[3, 3, 3, 3]
[3, 3, 3, 3]
[3, 3, 3, 3]
PS C:\Users\HP\OneDrive\Desktop\vs code progss> []
```