Program - 9

**Aim: Multiple Matrices in Python.**

**Code:**

*# 3x3 matrix*X = [[12,7,3],  
 [4 ,5,6],  
 [7 ,8,9]]  
*# 3x4 matrix*Y = [[5,8,1,2],  
 [6,7,3,0],  
 [4,5,9,1]]  
*# result is 3x4*result = [[0,0,0,0],  
 [0,0,0,0],  
 [0,0,0,0]]  
for i in range(len(X)):  
 for j in range(len(Y[0])):  
 for k in range(len(Y)):  
 result[i][j] += X[i][k] \* Y[k][j]  
for r in result:  
 print(r)

**Output:**

