

CSE 1224 - Lab 7 - Due Tuesday, November by 11:59 pm

A *Path Graph* is a graph that is a path. Path graphs with 4 and 5 nodes are shown below.

P_4 :



P_5 :



1) Write a function called *path_d(n)* that takes a positive integer as an argument and returns a dictionary representation of a path graph with n vertices.

For example, *path_d(5)* should return

```
{0 : [1],  
 1 : [0, 2],  
 2 : [1, 3],  
 3 : [2, 4],  
 4 : [3]}
```