## Assignment#4 - Path Count Problem Implementation using Dynamic Programming in any of your preferred Programming Language (C/C++/Java)

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Code:
#include<iostream>
#include<bits/stdc++.h>
using namespace std;
int main()
{
  int row,col;
  cout<<"Enter Row and Column of the matrix\n";
  cout<<"enter Row=";
  cin>>row;
  cout<<"enter column=";
  cin>>col;
  int matrix[row][col];
  for(int i=0;i<row;i++)
    {
      for(int j=0;j<col;j++)
          if(i==0 | j==0)
               {
```

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matrix[i][j]=1;
                }
           else
              {
                matrix[i][j]=matrix[i-1][j]+matrix[i][j-1];
              }
         }
    }
  for(int i=0;i<row;i++)
     {
      for(int j=0;j<col;j++)
      {
         cout<<matrix[i][j]<<" ";
      }
      cout<<endl;
    }
  cout<<"\nThe possible Ways to reach there is = "<<matrix[row-1][col-1];</pre>
  return 0;
}
```

Output:

