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```
''' Task 1 '''
In [18]:
         def myreduce(n, i):
             try:
                  a = n/i
                  print("%d = %d / %d" %(a, n ,i) )
              except ZeroDivisionError:
                  print("infinity = %d / %d" %(n ,i) )
                  print("Error: %d cannot be divided by zero" %n)
              finally:
                  print("Exiting the function\n")
         myreduce(10,2)
         myreduce(10,1)
         myreduce(10,0)
         5 = 10 / 2
         Exiting the function
         10 = 10 / 1
         Exiting the function
         infinity = 10 / 0
         Error: 10 cannot be divided by zero
         Exiting the function
          ''' Task 1
In [40]:
             Prog 2 '''
         import numpy as np
         row1 = ["American", "Indian"]
         row2 = ["play", "watch"]
         row3 = ["Baseball", "Cricket"]
         for i in row1:
             for j in row2:
                 for k in row3:
                     print(i, j, k)
         American play Baseball
         American play Cricket
         American watch Baseball
         American watch Cricket
         Indian play Baseball
         Indian play Cricket
         Indian watch Baseball
         Indian watch Cricket
```

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```
Vandermonde matrix:
```

```
[[ 1 1 1 1]
[ 8 4 2 1]
[ 27 9 3 1]
[ 64 16 4 1]]
```