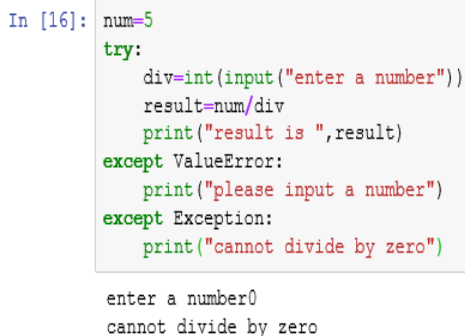# Problem Statement

1. Write a function to compute 5/0 and use try/except to catch the exceptions.

Source Code:

```
num=5
try:
    div=int(input("enter a number"))
    result=num/div
    print("result is ",result)
except ValueError:
    print("please input a number")
except Exception:
    print("cannot divide by zero")
```

Output Screenshot:

```
In [16]: num=5
         try:
             div=int(input("enter a number"))
             result=num/div
             print("result is ",result)
         except ValueError:
             print("please input a number")
         except Exception:
             print("cannot divide by zero")

         enter a number0
         cannot divide by zero
```

2. Implement a Python program to generate all sentences where subject is in ["Americans", "Indians"] and verb is in ["Play", "watch"] and the object is in ["Baseball","cricket"].
Hint: Subject,Verb and Object should be declared in the program as shown below.
subjects=["Americans ","Indians"]
verbs=["play","watch"]
objects=["Baseball","Cricket"]
Output should come as below:
Americans play Baseball.
Americans play Cricket.
Americans watch Baseball.
Americans watch Cricket.
Indians play Baseball.
Indians play Cricket.
Indians watch Baseball.
Indians watch Cricket.

NOTE: The solution shared through Github should contain the source code used and the screenshot of the output.

Source Code:

```python
subject=["Americans", "Indians"]
verb=["Play", "watch"]
obj=["Baseball","cricket"]
sentence_list = [(sub+" "+ vb + " " + ob) for sub in subject for vb in verb for ob in obj]
for sentence in sentence_list:
    print (sentence)
```

Output Screenshot:

```
In [17]: subject=["Americans", "Indians"]
         verb=["Play", "watch"]
         obj=["Baseball","cricket"]
         sentence_list = [(sub+" "+ vb + " " + ob) for sub in subject for vb in verb for ob in obj]
         for sentence in sentence_list:
             print (sentence)

         Americans Play Baseball
         Americans Play cricket
         Americans watch Baseball
         Americans watch cricket
         Indians Play Baseball
         Indians Play cricket
         Indians watch Baseball
         Indians watch cricket
```