

## 2.Problem Statement

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

Solution:

```
# Divide by zero
try:
    x = 5 / 0
except:
    print("Error dividing by zero")
```

Error dividing 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.

**Solution:**

```
subject=["Americans","Indians"]
verb=["play","watch"]
objects=["Baseball","Cricket"]

# List Comprehension
Syntax = [(Sub+' '+vrb+' '+Objct+".") for Sub in subject for vrb in verb for Objct in objects]

#for Loop for Iteration
print("Output:")

for syn in Syntax:
    print(syn)
```

Output:

```
Americans play Baseball.
Americans play Cricket.
Americans watch Baseball.
Americans watch Cricket.
Indians play Baseball.
Indians play Cricket.
Indians watch Baseball.
Indians watch Cricket.
```

---