

Data Science Masters :Assignment 5

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

```
In [14]: # Solution:

def ComputeCalculation(a,b):
    try:
        div = a/b;
        return div
    except ZeroDivisionError:
        return "Error - Numbers cannot be divided by Zero."

print(ComputeCalculation(5,0))
```

Error - Numbers cannot be divided 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.
```

In [36]: *# Solution:*

```
def SentenceFormation(subjects,verbs,objects):  
    for sub in subjects:  
        for vb in verbs:  
            for obj in objects:  
                print(sub+" "+vb+" "+obj+".")  
  
subjects=["Americans","Indians"]  
verbs=["play","watch"]  
objects=["Baseball","Cricket"]  
SentenceFormation(subjects,verbs,objects);
```

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