

Assignment 4

Submitted By Dheeraj Varshney

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

```
▶ def div():  
    return 5/0  
  
try:  
    div()  
except ZeroDivisionError as zde:  
    print("Dividing a no. by zero will give an exception")  
except:  
    print("other exception")
```

☞ Dividing a no. by zero will give an exception

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.
```

```
▶ subject = ["Americans", "Indians"]  
verb = ["Play", "watch"]  
obj = ["Baseball", "cricket"]  
  
# Use list comprehension instead of looping over each of the predicates  
list = [(a+" "+ b + " " + c) for a in subject for b in verb for c in obj]  
for output in list:  
    print(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
```