



## ATHARVA COLLEGE OF ENGINEERING

Department of Information Technology

Academic year 2018-2019

```
i=1
while i<=5:
    n=int(input("Please enter numbers between 1 to 5 to see different Exceptions : "))
    if n==1:
        try:
            a=int(input("Please enter number a : "))
            b=int(input("Please enter number b (put b=0): "))
            c=a/b
        except ZeroDivisionError:
            print("Oops! Number Divisible by Zero Exception Occurs.")
        else:
            print "Division is",c
    elif n==2:
        try:
            a=int(input("Please enter number a : "))
            b=int(input("Please enter number b (put b='a'): "))
            c=a/b
        except ValueError:
            print("Oops! Value Error Exception Occurs.
            Please enter a valid number.")
        else:
            print "Division is",c
    elif n==3:
        try:
            a=int(input("Please enter number a : "))
            b=int(input("Please enter number b : "))
            c=k/b
        except NameError:
            print("Oops! Name Error Exception Occurs due to c=k/b (k is not defined ).Please enter a valid
            variable number.")
    elif
        n==4:
            try:
                r='2'+2
            except TypeError:
                print("Oops! Type Error Exception Occurs (due to '2'+2).Please Provide Valid data type. ")
    elif n==5:
        try:
            n=int(input("Please enter Numbers between 2 to 3: (Check for other nos) "))
            assert n>=2 and n<=3
```

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```
print("The Number Entered is",n)
except AssertionError:
print("Oops! Assertion Error Occurs..Please enter number between 2 to 5.")
else:
print "Existing The Program"
exit()
i+=1
```

**Output:**

Please enter numbers between 1 to  
5 to see different Exceptions : 4

Oops! Type Error Exception Occurs  
(due to '2'+2).Please Provide Valid  
data type.

Please enter numbers between 1 to  
5 to see different Exceptions : 1

Please enter number a : 10

Please enter number b (put b=0): 0

Oops! Number Divisible by Zero  
Exception Occurs.

Please enter numbers between 1 to  
5 to see different Exceptions : 2

Please enter number a : 20

Please enter number b (put b='a'):  
20

('Division is:', 1)

Please enter numbers between 1 to  
5 to see different Exceptions : 3

Please enter number a : 10

Please enter number b : 3



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Oops! Name Error Exception  
Occurs due to  $c=k/b$  (k is not  
defined ).Please enter a valid  
variable number.

Please enter numbers between 1 to  
5 to see different Exceptions : 5

Please enter Numbers between 2 to  
3: (Check for other nos)2

('The Number Entered is:', 2)