

SNO	Date	IDX	program	Signature
4		4.1	Exception Handling	
		4.2	Generalised Exception	

1) Write a Python program to demonstrate Exception Handling

try:

```
a=int(input(" Enter First Value : "))
b=int(input(" Enter the second Value : "))
print(" Sum = ",a+b)
print(" Quotient = ",a//b)
print(" Average = ",(a+b)/2.0)
```

except ZeroDivisionError:

```
print(" Division is not possible because the denominator is Zero ")
```

except ValueError:

```
print(" please provide integer value only")
```

else:

```
print(" Operation Completed Without Exception ")
```

try:

```
print(" Difference = ",a-b)
print(" Product = ",a*b)
```

except NameError as msg:

```
print(" Error is : ",msg)
```

finally:

```
print(" Possible Arithmetic operations completed ")
```

OUTPUT :

```

C:\python>py Ex10_1.py
Enter First Value : 10
Enter the second Value : 5
Sum = 15
Quotient = 2
Average = 7.5
Operation Completed Without Exception
Difference = 5
Product = 50
Possible Arithmetic operations completed

C:\python>py Ex10_1.py
Enter First Value : 10
Enter the second Value : 0
Sum = 10
Division is not possible because the denominator is Zero
Difference = 10
Product = 0
Possible Arithmetic operations completed

C:\python>py Ex10_1.py
Enter First Value : ten
please provide integer value only
Error is : name 'a' is not defined
Possible Arithmetic operations completed

```

2) Write a python program to handle different types of exceptions in single exception Block

```

try:
    l=['item0','item1','item2']
    a = int(input("Enter a:"))
    b = int(input("Enter b:"))
    c = a//b
    print("a//b = %d"%c)
    print(" list item is : ",l[c])
except Exception as e:
    print("Error is : ",e)
else:
    print("No Exception Occured")

```

OUTPUT:

```
C:\python>py Ex10_2.py
Enter a:10
Enter b:5
a//b = 2
list item is : item2
No Exception Occured

C:\python>py Ex10_2.py
Enter a:50
Enter b:5
a//b = 10
Error is : list index out of range

C:\python>py Ex10_2.py
Enter a:10
Enter b:0
Error is : integer division or modulo by zero

C:\python>py Ex10_2.py
Enter a:10
Enter b:five
Error is : invalid literal for int() with base 10: 'five'
```