Exceptions:

```
try :
        a = int(input('Enter an integer: '))
        b = int(input('Enter an integer: '))
        c = a / b
        print('c =', c)
except ZeroDivisionError :
        print('Denominator is 0')
```

```
try :
        # some statements
except (NameError, TypeError, ZeroDivisionError) :
        # some other statements
```

```
try :
        a = int(input('Enter an integer: '))
        b = int(input('Enter an integer: '))
        c = a / b
        print('c =', c)
except ZeroDivisionError as zde :
        print('Denominator is 0')
        print(zde.args)
        print(zde)
except ValueError :
        print('Unable to convert string to int')
except :
        print('Some unknown error')
```

```
try :
        lst = [10, 20, 30, 40, 50]
        for num in lst :
                i = int(num)
                j = i * i
                print(i, j)
except NameError:
        print(NameError.args)
else:
        print('Total numbers processed', len(lst))
        del(lst)
```

1. Write a program that infinitely receives positive integer as input and prints its square. If a negative number is entered then raise an exception, display a relevant error message and make a graceful exit.

```
try:
        while True :
                num = int(input('Enter a positive number: '))
                if num >= 0 :
                        print(num * num)
                else :
                        raise ValueError('Negative number')
except ValueError as ve :
    print(ve.args)
```

2. Write a program that receives an integer as input. If a string is entered instead of an integer, then report an error and give another chance to user to enter an integer. Continue this process till correct input is supplied.

```
while True :
        try :
                num = int(input('Enter a number: '))
                break
        except ValueError :
                print('Incorrect Input')
print('You entered: ', num)
```