```
                              Name-Rakesh Rajput
```

In [ ]:
```
"""
Que 1-what is an Exeption in python ? write the difference between Exception
and syntax error

Ans 1-An exception is an event, which occurs during the execution of a program
that disrupts the normal flow of the program's instructions

differece between exception and error are

Exception-                                    Error
1)Exception can be recovered                1)Error Cannot be recovered

2)Exception Can be classified               2)there is no such classification
in two type                                   for error error are always uncheck

a) checked Exception

b) Unchecked Exception




Que 2-what happens when an exception is not handled ? Explain with Example
Ans 2-the runtime system will abort the program (i.e. crash) and an
exception message will print to the console



Que 3-which python statement are used to catch and handle exception ?
      Explain with example
Ans 3- try and except block are use for handled exception

"""
```

In [5]:
```
"""
Que 4-
Ans 4
"""
f=open("test.txt","r")
print("this line not excute because you are not use try block")

# to resolve this issue
```

```
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
<ipython-input-5-1cffa59fcf84> in <module>
      3 Ans 4
      4 """
----> 5 f=open("test.txt","r")
      6 print("this line not excute because you are not use try block")
      7

FileNotFoundError: [Errno 2] No such file or directory: 'test.txt'
```

In [15]:
```
try :
  f=open("test.txt","r")
except Exception as e:
  print("this is my except block ",e)
```

```
this is my except block  [Errno 2] No such file or directory: 'test.txt'
```

In [16]:
```
try:
  f=open("test.txt","r")
  f.write("write into my file")
except Exception as e:
  print("this is my Except block",e)
else:
  f.close()
  print("this will be excuted once your try will excuted without error")
```

```
this is my Except block [Errno 2] No such file or directory: 'test.txt'
```

In [17]:
```
try:
  f=open("test3.txt","r")
  f.write("write something ")
finally:
  print("finally will execute itself in any situation")
```

```
finally will execute itself in any situation

---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
<ipython-input-17-b244c677798a> in <module>
      1 try:
----> 2   f=open("test3.txt","r")
      3   f.write("write something ")
      4 finally:
      5   print("finally will execute itself in any situation")

FileNotFoundError: [Errno 2] No such file or directory: 'test3.txt'
```

In [18]:
```
"""
Que 5-
What are custome Exception in python ? why do we need custom Exception ?
Explain with an Example

Ans - Custom exceptions provide you the flexibility to add attributes and
methods that are not part of a standard  exception. To catch and provide
specific treatment to a subset of existing exceptions
"""
```

Out[18]:
```
'\nQue 5-\nWhat are custome Exception in python ? why do we need custom Exception ?\nExplain with an Example\n'
```

In [22]:
```
"""
Que 6- Create a custom exception class use this class to handle an exception
Ans 6
"""
class new_Validation(Exception):
    def __init__(self,cool):
        self.cool=cool
```

In [26]:
```
def new_val(age):
    if age<0:
        raise new_Validation("enter age negative")
    elif age>200:
        raise new_Validation("enter age to high")
    else:
        raise new_Validation("age is valid")
```

In [28]:
```
try:
    age=int(input("enter your age"))
    new_val(age)
except new_Validation as e:
    print(e)
```

```
enter your age90
age is valid
```

In [ ]:
```

```