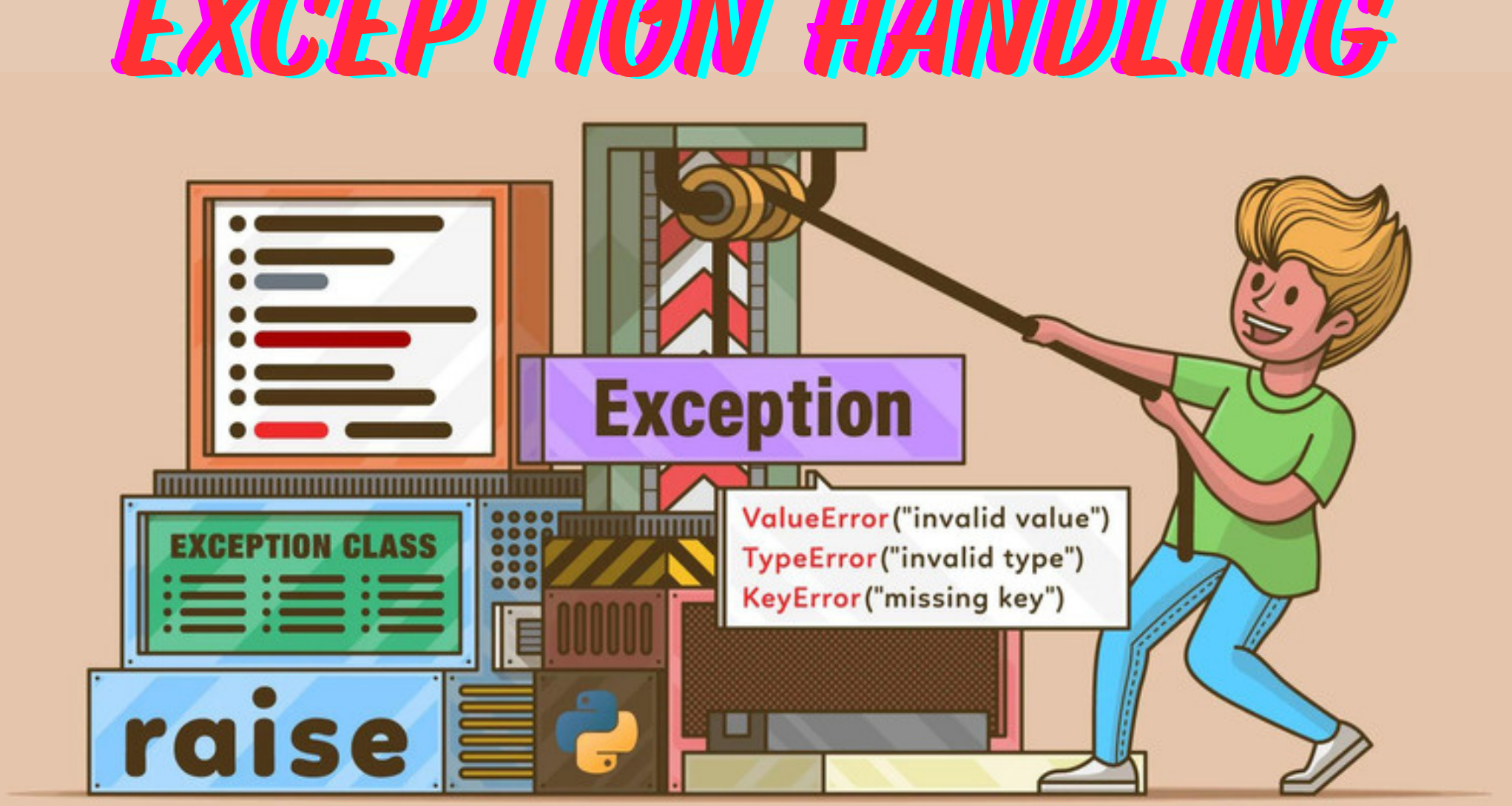
#DAY 23

DAY 23 OF 200 DAY'S PYTHON CHALLANGE

EXCEPTION HANDLING



EXCEPTION HANDLING

Exception handling in Python is a mechanism for handling errors that occur during the execution of a program. It allows the programmer to specify what should happen when an error occurs, rather than the program simply crashing.

There are two main ways to handle exceptions in Python: using the “Try” and “Except” statements

We are learn two more statements in Exception Handling :
One is Else or another one is Finally

- **Try:**
  We call a try statement the block of code and lines in which the error occours is expected.
- **Except:**
  Perform except statement if any type of error occurs in try block
- **Else:**
  This block execute only when try block execute successfully
- **Finally:**
  The finally block in Python is always executed, regardless of whether an exception is raised in the try block or not.

TRY-EXCEPT-ELSE

python.py

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

python.py

```
try :
  f= open("test.txt" , 'w')
  f.write(" write into my file " )
except Exception as e :
  print("this is my except block " , e)
else :
  f.close()
  print(" this will be executed once your try will
execute without error" )
```

TRY-EXCEPT-FINALLY

python.py

```
try :
  f = open("test3.txt" , 'w')
  f.write("write something" )
finally :
  print("finally will execute itself in any situation")
```

python.py

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

CUSTOM EXCEPTION HANDLING

python.py

```
age = int(input("enter your age" ))
class validateage(Exception):
  def __init__(self , msg) :
    self.msg = msg

def validaetage(age) :
  if age < 0 :
    raise validateage("entered age is negative " )
  elif age > 200 :
    raise validateage("enterd age is very very high " )
  else :
    print("age is valid" )

try :
  age = int(input("enter your age" ))
  validaetage(age)
except validateage as e :
  print(e)
```

ASSIGNMENT QUESTIONS

Q1. What is an Exception in python? Write the difference between Exceptions and syntax errors.

Q2. What happens when an exception is not handled? Explain with an example.

Q3. Which python statement are used to catch and handle exceptions? Explain with an example.

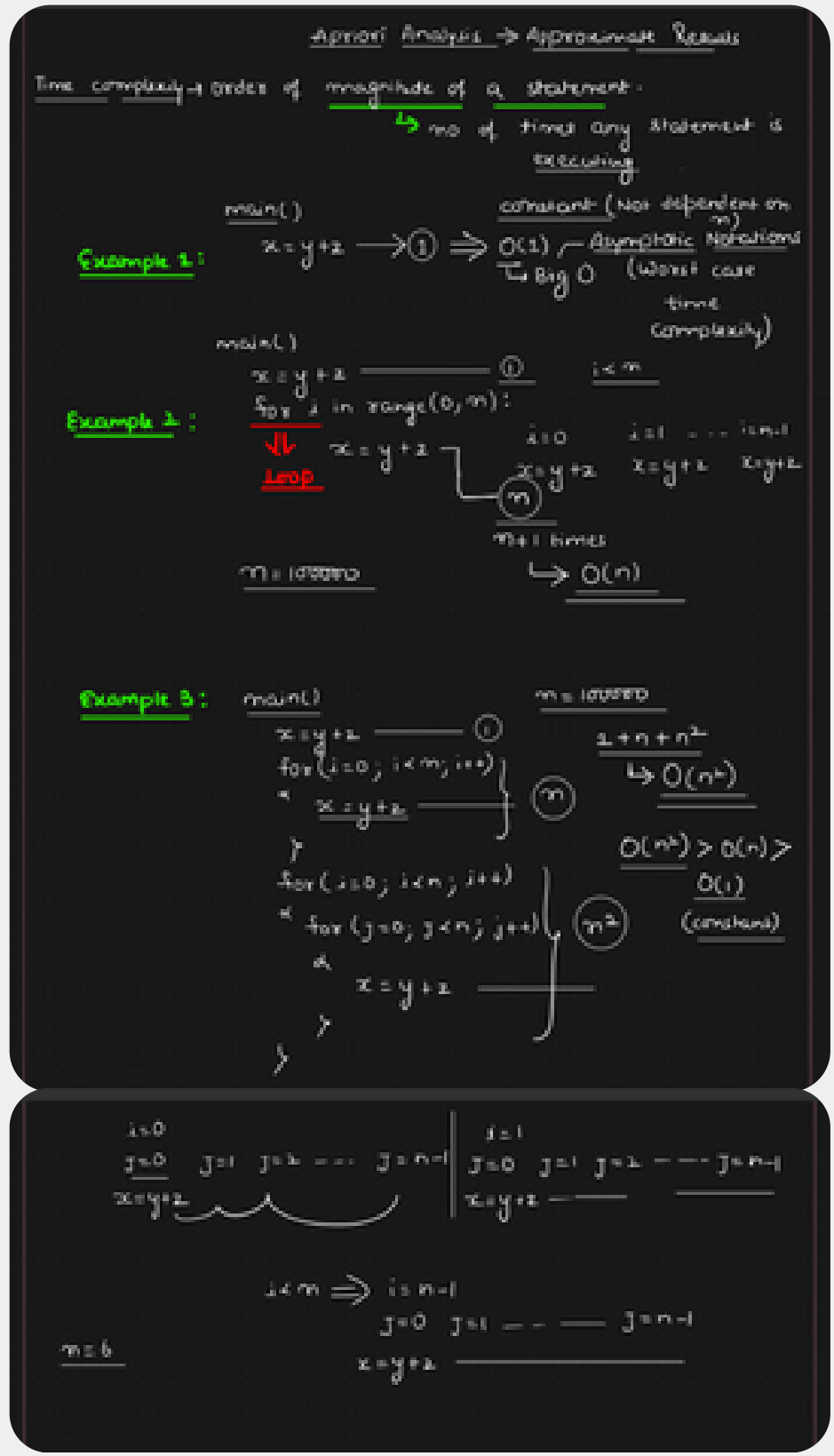
Q4. Explain with an example:

- **try and else**
- **finally**
- **raise**

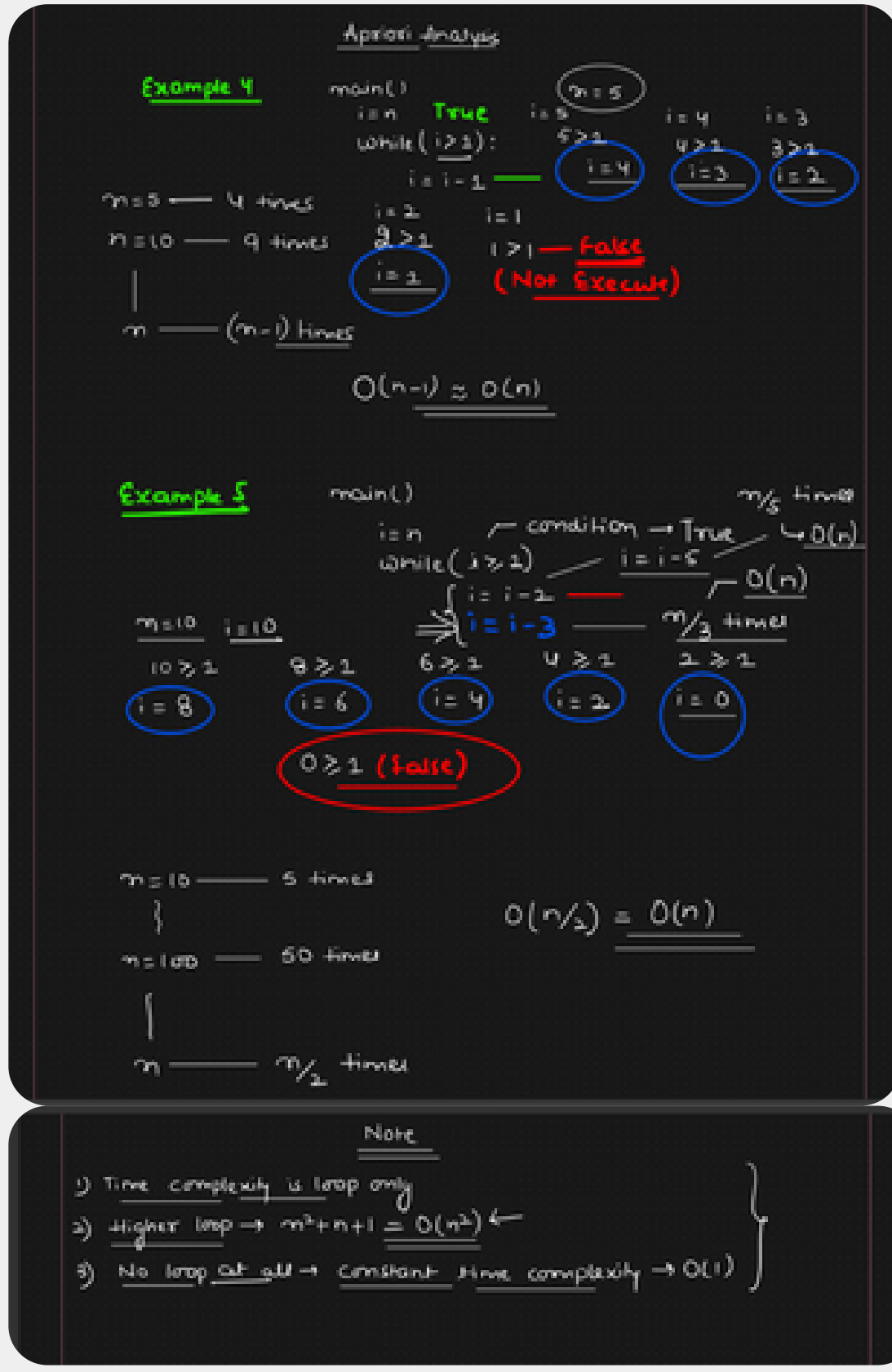
Q5. What are Custom Exceptions in python? Why do we need custom Exceptions? Explain with an example.

Q6. Create a custom exception class. Use this class to handle an exception.

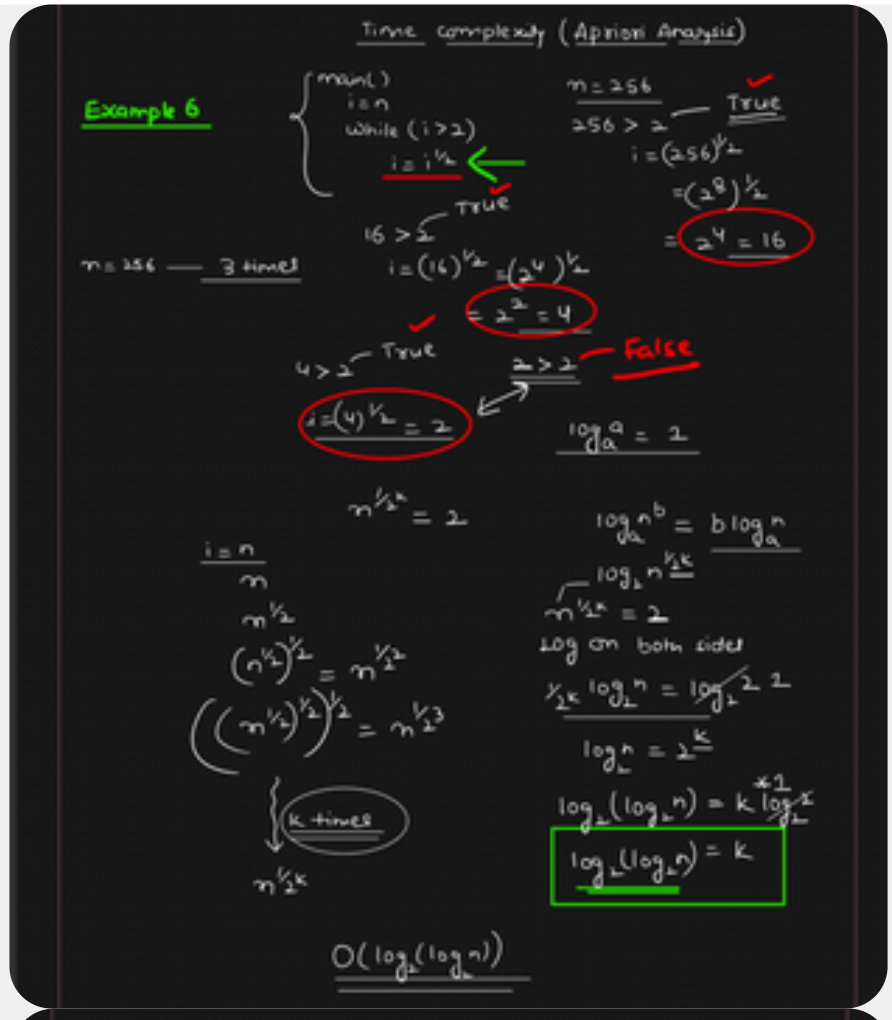
APRIORI ANALYSIS

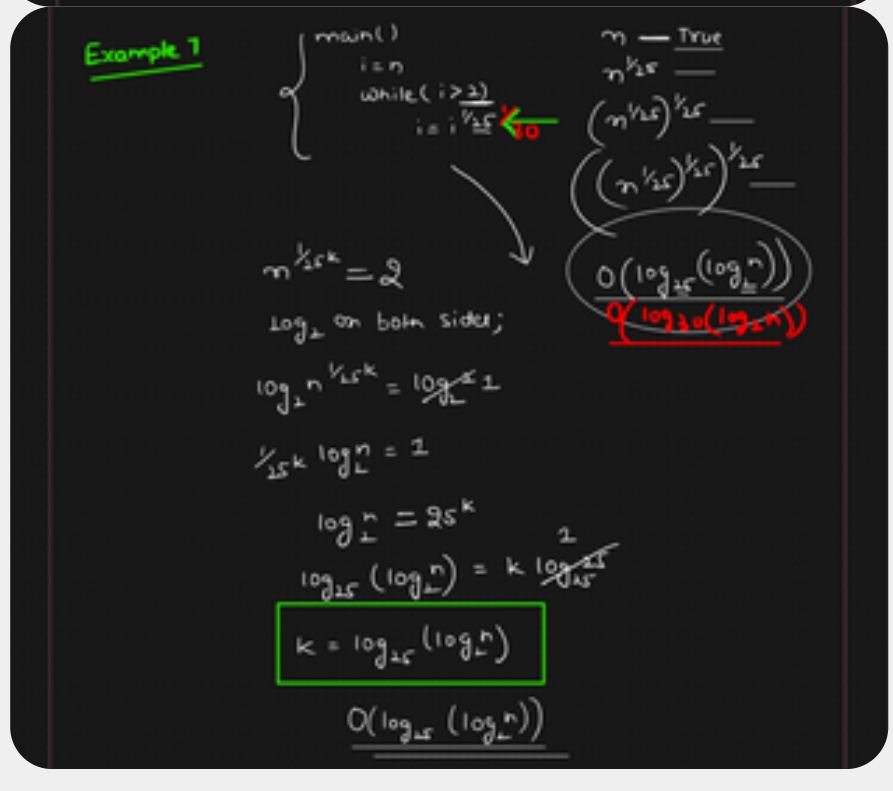


APRIORI ANALYSIS



APRIORI ANALYSIS





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