**Note : This is a basic example, and you might need to modify it according to your specific requirements and RFID reader specifications.**

rfid\_inventory.py

import RPi.GPIO as GPIO

from mfrc522 import SimpleMFRC522

import mysql.connector

reader = SimpleMFRC522()

db = mysql.connector.connect(

host="your\_host",

user="your\_username",

password="your\_password",

database="your\_database"

)

cursor = db.cursor()

def read\_rfid():

try:

print("Hold an RFID tag near the reader...")

id, text = reader.read()

print("Tag ID: {}".format(id))

print("Tag Data: {}".format(text))

return id, text

except Exception as e:

print("Error reading RFID:", str(e))

return None, None

def update\_inventory(tag\_id, tag\_data):

try:

sql = "INSERT INTO inventory (tag\_id, tag\_data) VALUES (%s, %s)"

values = (tag\_id, tag\_data)

cursor.execute(sql, values)

db.commit()

print("Inventory updated for Tag ID: {} with Data: {}".format(tag\_id, tag\_data))

except Exception as e:

print("Error updating inventory:", str(e))

if \_\_name\_\_ == "\_\_main\_\_":

try:

while True:

tag\_id, tag\_data = read\_rfid()

if tag\_id is not None:

update\_inventory(tag\_id, tag\_data)

except KeyboardInterrupt:

print("Inventory management interrupted by the user.")

finally:

cursor.close()

db.close()