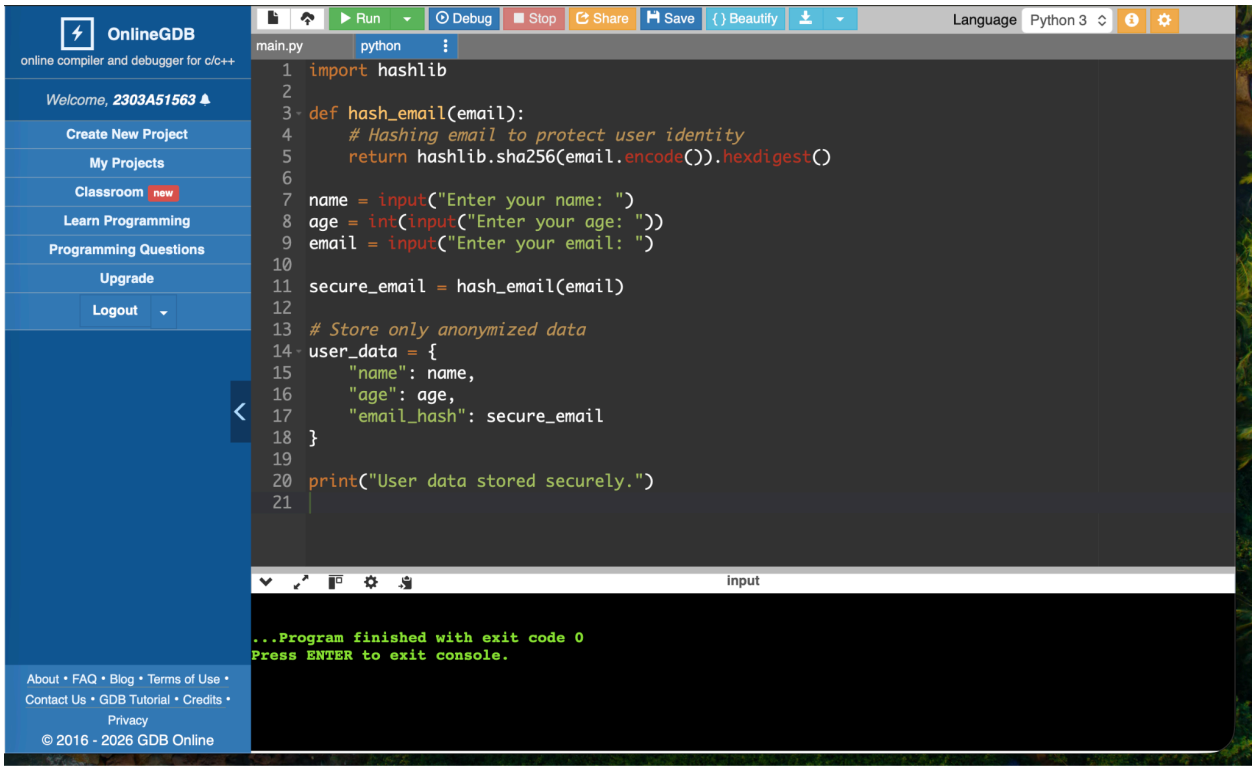
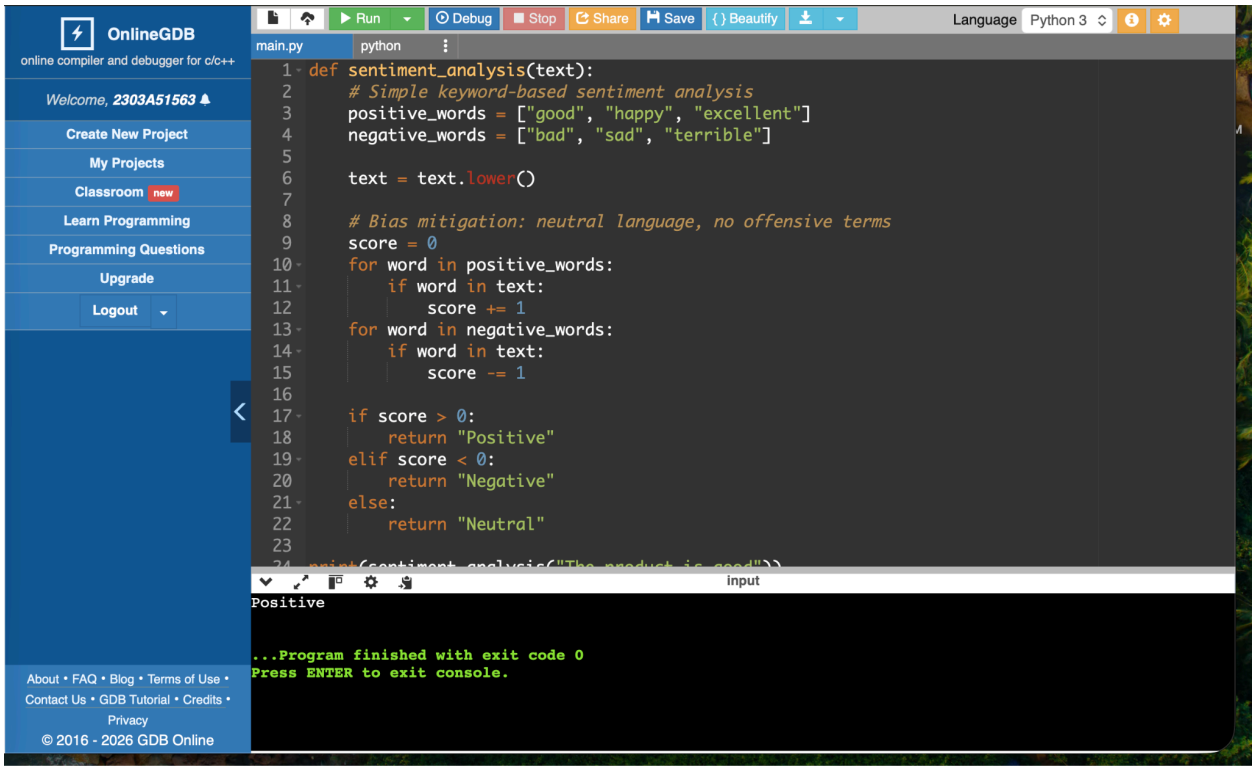
2303A51563
batch =10

```
import hashlib

def hash_email(email):
    # Hashing email to protect user identity
    return hashlib.sha256(email.encode()).hexdigest()

name = input("Enter your name: ")
age = int(input("Enter your age: "))
email = input("Enter your email: ")

secure_email = hash_email(email)

# Store only anonymized data
user_data = {
    "name": name,
    "age": age,
    "email_hash": secure_email
}

print("User data stored securely.")
```



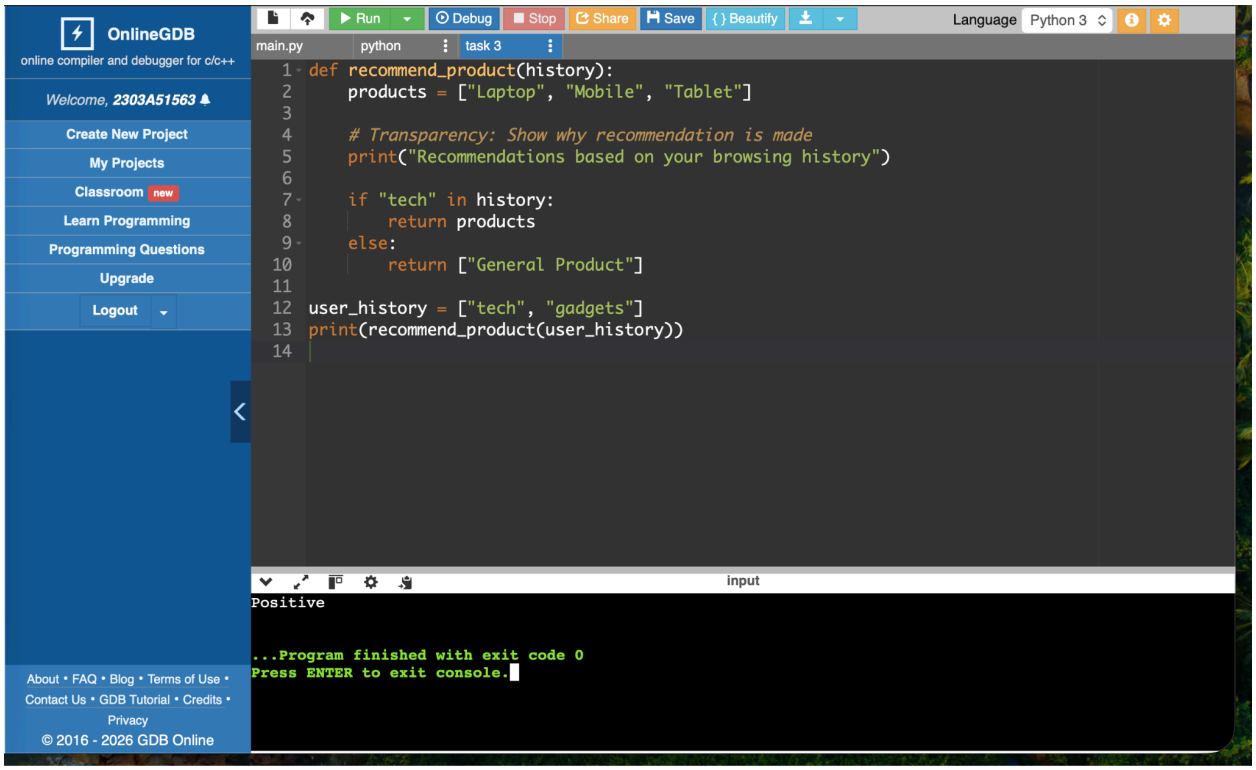

```
def sentiment_analysis(text):
```

```
    # Simple keyword-based sentiment analysis
    positive_words = ["good", "happy", "excellent"]
    negative_words = ["bad", "sad", "terrible"]

    text = text.lower()

    # Bias mitigation: neutral language, no offensive terms
    score = 0
    for word in positive_words:
        if word in text:
            score += 1
    for word in negative_words:
        if word in text:
            score -= 1

    if score > 0:
        return "Positive"
    elif score < 0:
        return "Negative"
    else:
        return "Neutral"

print(sentiment_analysis("The product is good"))
```



Task 3

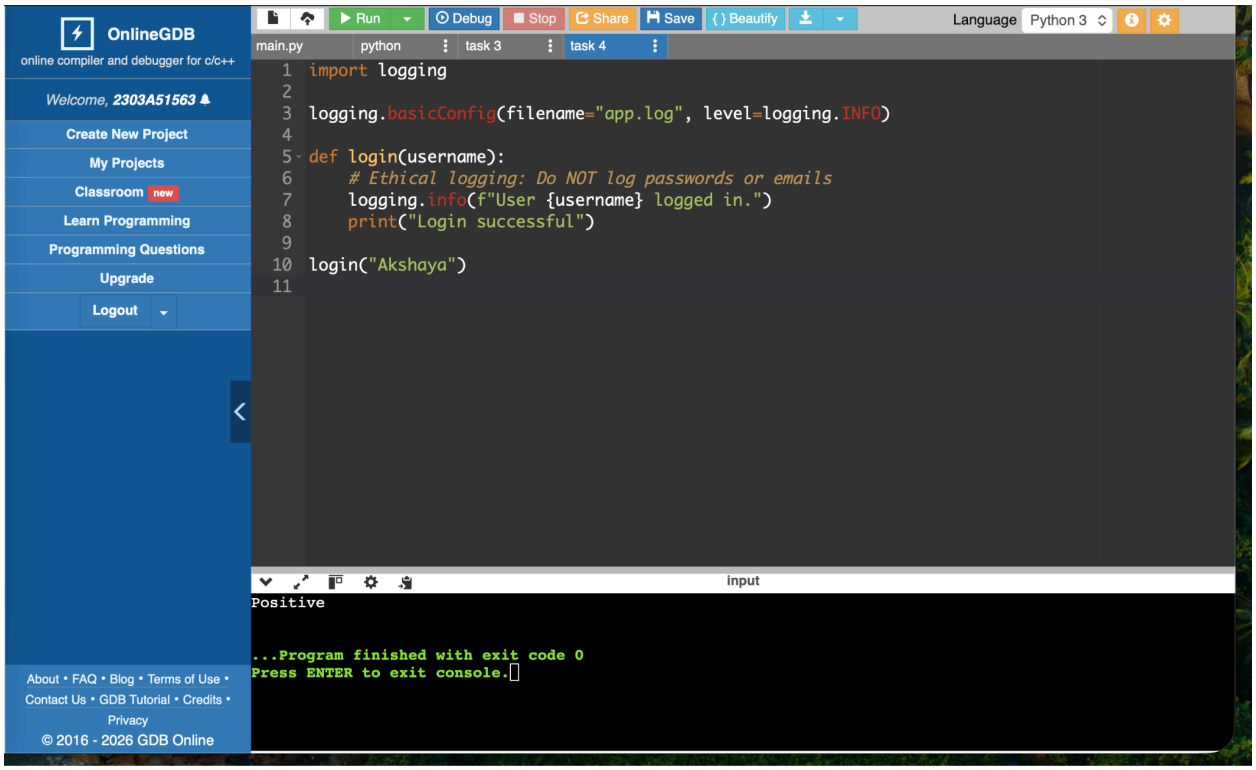
```
def recommend_product(history):
    products = ["Laptop", "Mobile", "Tablet"]

    # Transparency: Show why recommendation is made
    print("Recommendations based on your browsing history")

    if "tech" in history:
        return products
    else:
        return ["General Product"]

user_history = ["tech", "gadgets"]
print(recommend_product(user_history))
```



Task 3

```
import logging

logging.basicConfig(filename="app.log", level=logging.INFO)

def login(username):
    # Ethical logging: Do NOT log passwords or emails
    logging.info(f"User {username} logged in.")
    print("Login successful")
```

login("harshavardhan)



Tak 5

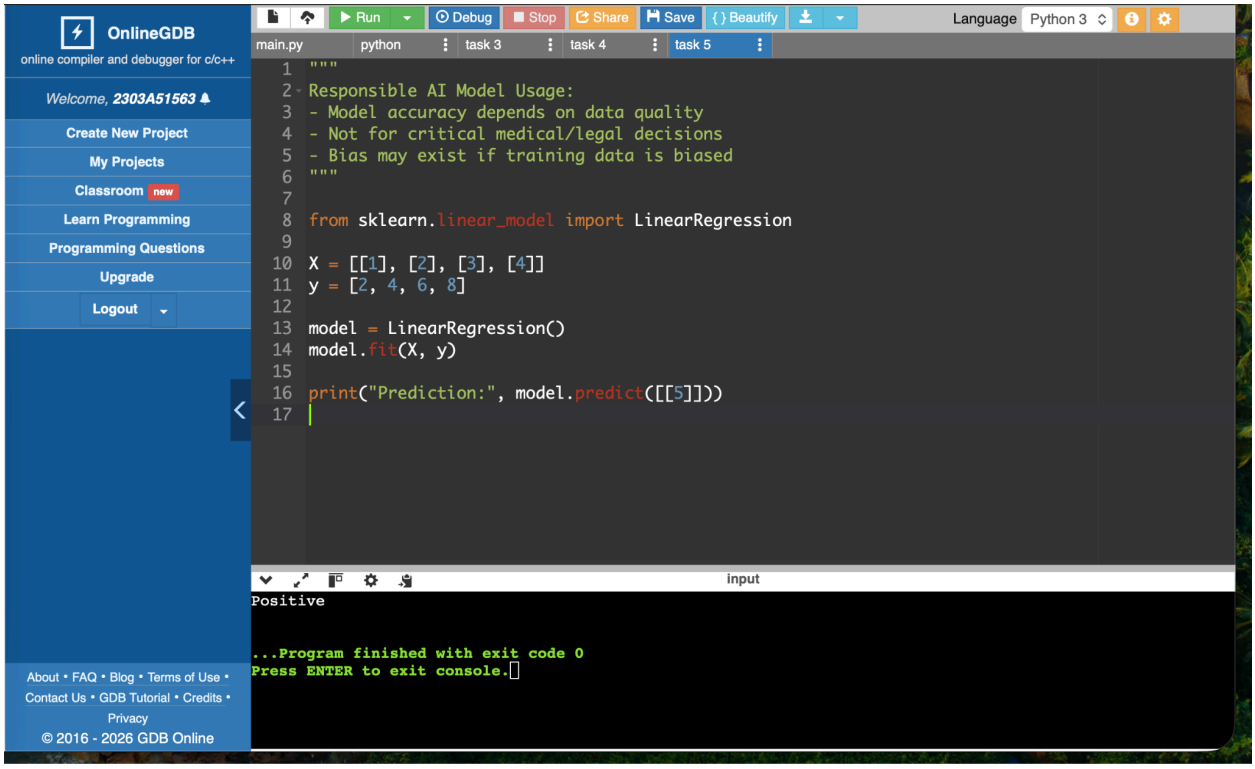
Responsible AI Model Usage:
- Model accuracy depends on data quality
- Not for critical medical/legal decisions
- Bias may exist if training data is biased
"""

from sklearn.linear_model import LinearRegression

X = [[1], [2], [3], [4]]
y = [2, 4, 6, 8]

model = LinearRegression()
model.fit(X, y)

print("Prediction:", model.predict([[5]]))


OnlineGDB
online compiler and debugger for c/c++
Welcome, 2303A51563
Create New Project
My Projects
Classroom new
Learn Programming
Programming Questions
Upgrade
Logout
Run
Debug
Stop
Share
Save
{ } Beautify
Language
Python 3
main.py
python
task 3
task 4
task 5
"""
Responsible AI Model Usage:
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model = LinearRegression()
model.fit(X, y)
print("Prediction:", model.predict([[5]]))
input
Positive
...Program finished with exit code 0
Press ENTER to exit console.
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