Python Mega Projects

Mega Project 1 - Finding Prime Number in Range

Python code:

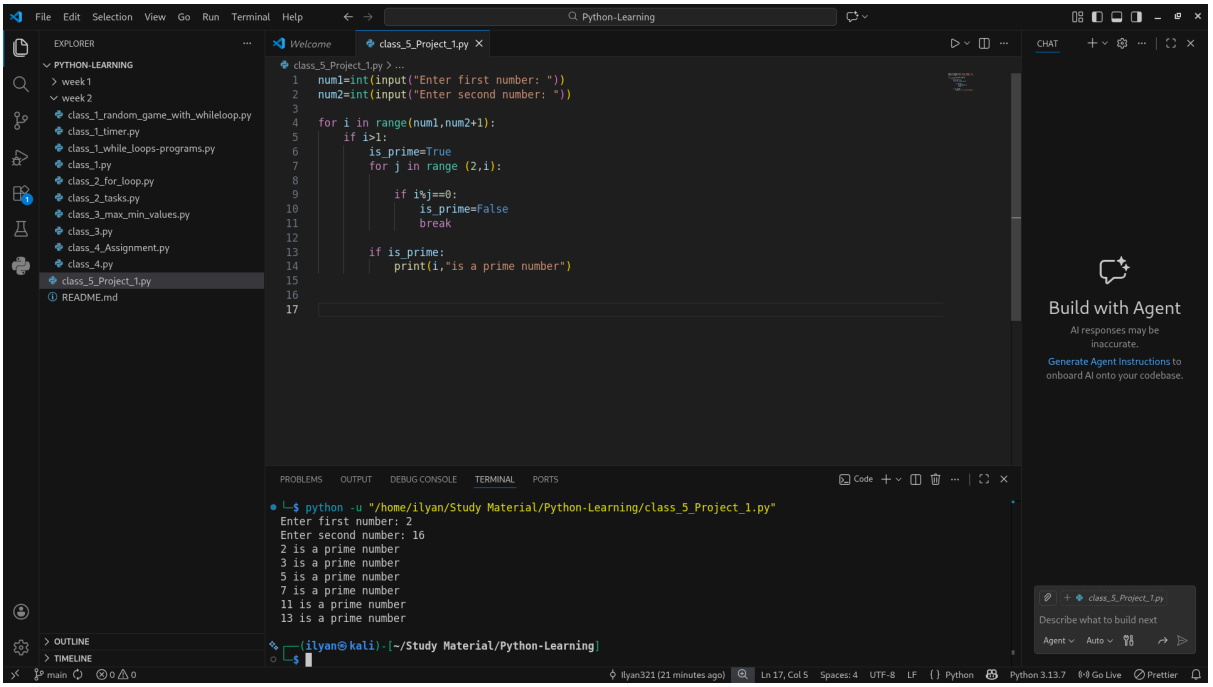
```
num1=int(input("Enter first number: "))
num2=int(input("Enter second number: "))

for i in range(num1,num2+1):
   if i>1:
       is_prime=True
       for j in range (2,i):

           if i%j==0:
               is_prime=False
               break

       if is_prime:
           print(i,"is a prime number")
```

Output:



Mega Project 2 - Matrix Manipulation

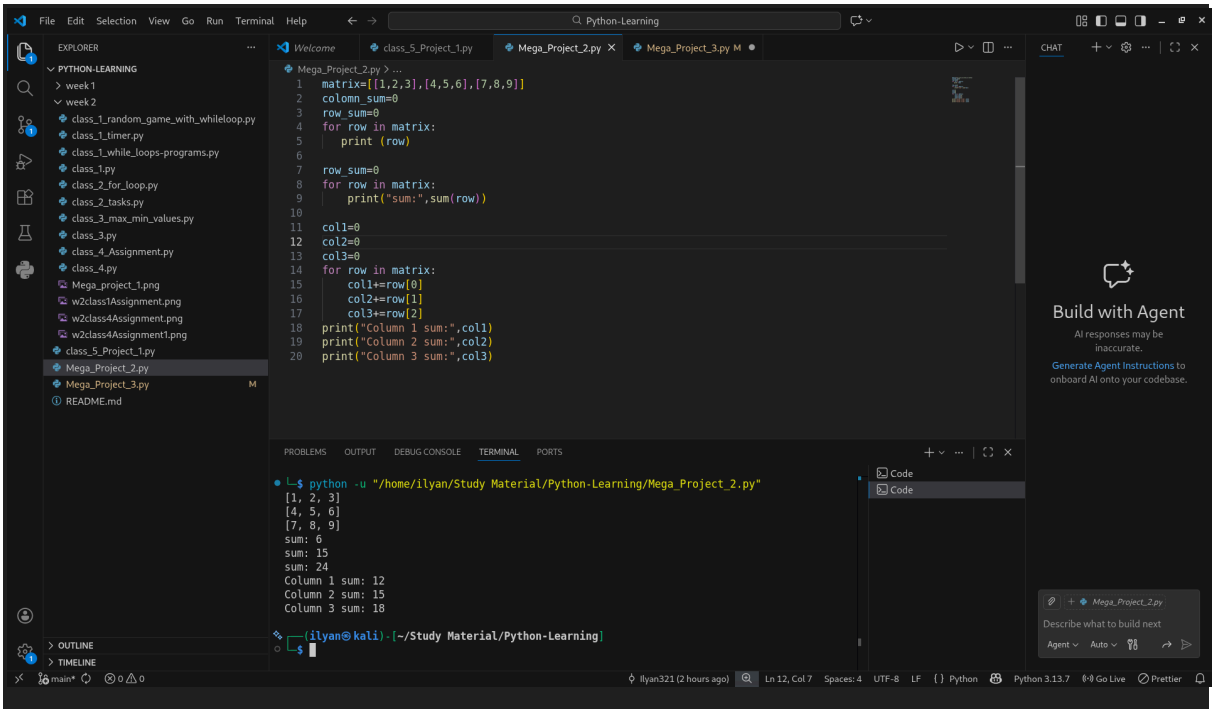
Python code:

```
matrix=[[1,2,3],[4,5,6],[7,8,9]]
colomn_sum=0
row_sum=0
for row in matrix:
  print (row)

row_sum=0
for row in matrix:
   print("sum:",sum(row))

col1=0
col2=0
col3=0
for row in matrix:
   col1+=row[0]
   col2+=row[1]
   col3+=row[2]
print("Column 1 sum:",col1)
print("Column 2 sum:",col2)
print("Column 3 sum:",col3)
```

Output:



Mega Project 3 - Number Guessing With Scores

Python code:

```
import random
i=1
print("---------------Number Guessing Game---------------")
while True:
   guess=random.randint(1,10)
   score=int(0)
   print("Round ",i)
   for i in range (3):
       print("The computer guessed:",guess)
       num=int(input("Enter a number between 1 and 10: "))
       if num==guess:
           print("You guessed correctly!  10 Score added.")
           score+=10
           print("Your total score is:",score)
           i+=1
           break
       else:
           print("You guessed incorrectly!")
       print()
   print("----------Your final score is:",score)
   print()
   i+=1
```

Output: