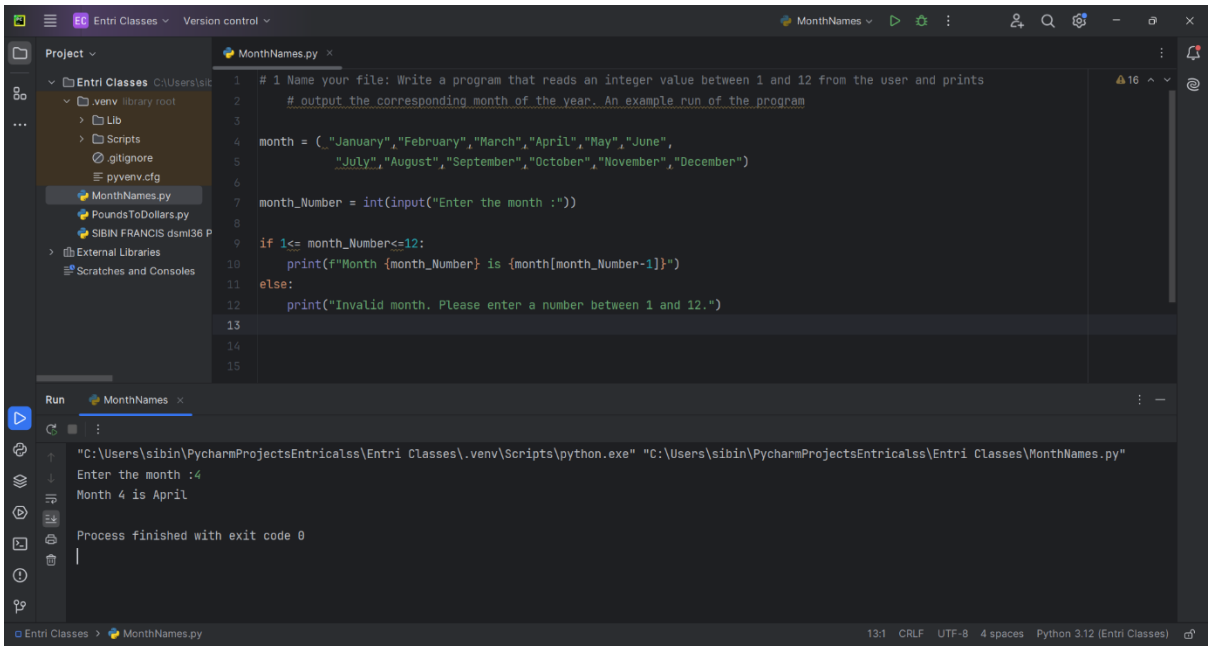
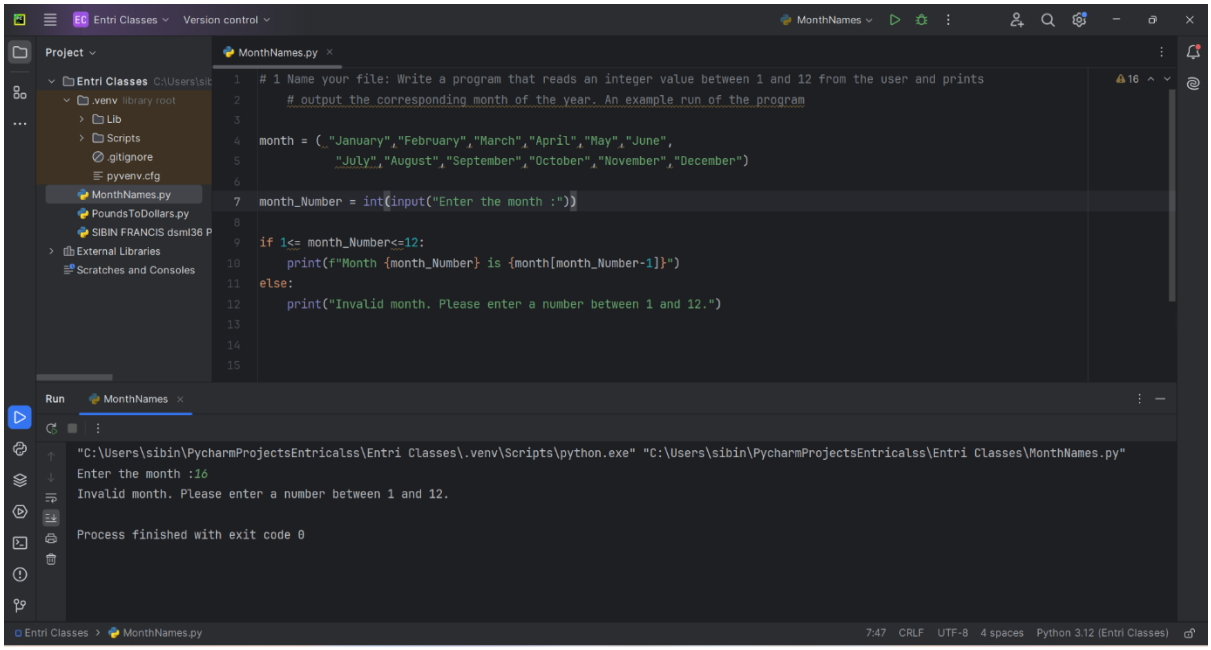
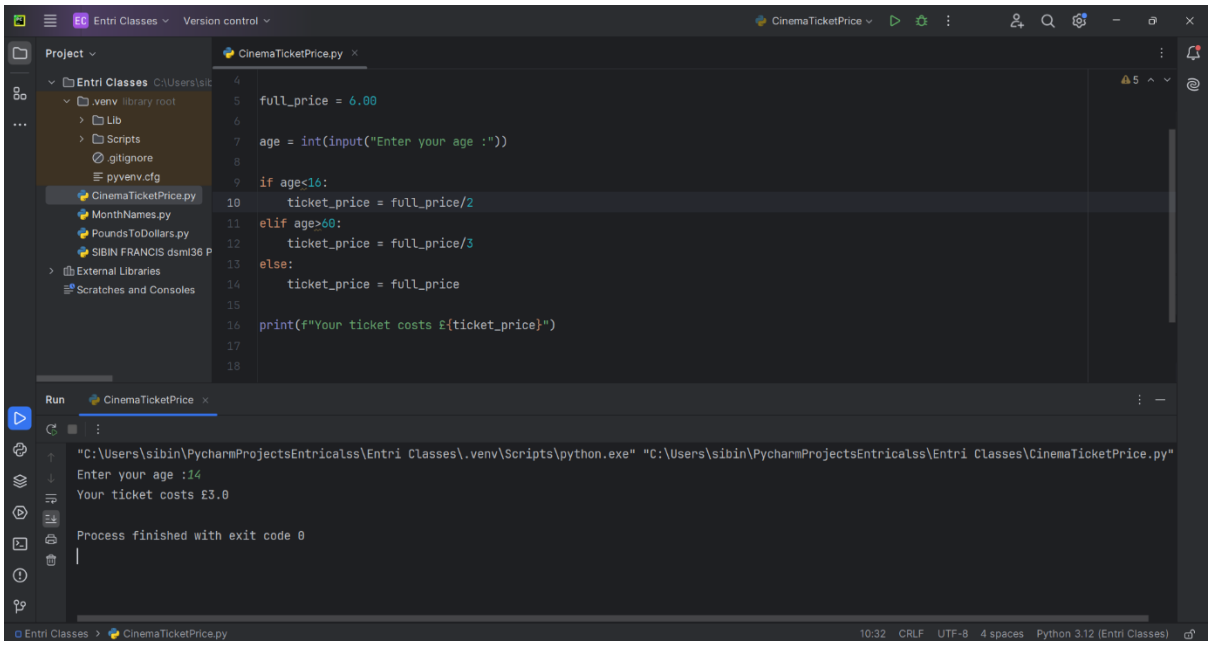
Conditional and Looping Statements

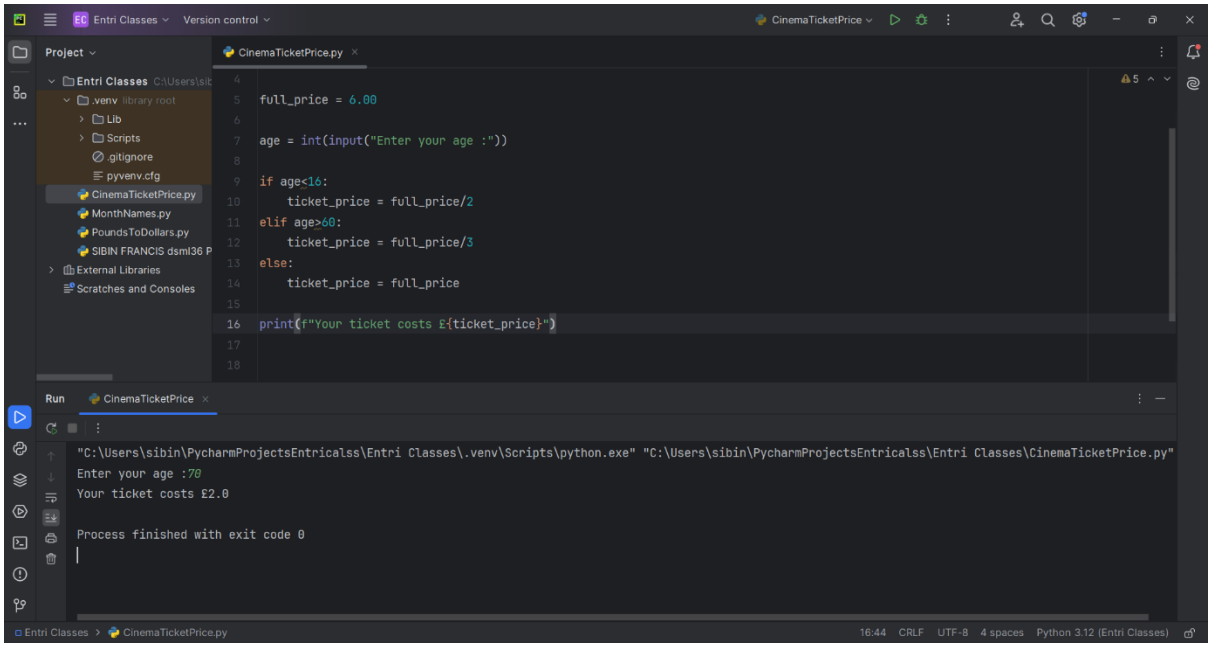
- **A program that reads an integer value between 1 and 12 from the user and prints output the corresponding month of the year.**

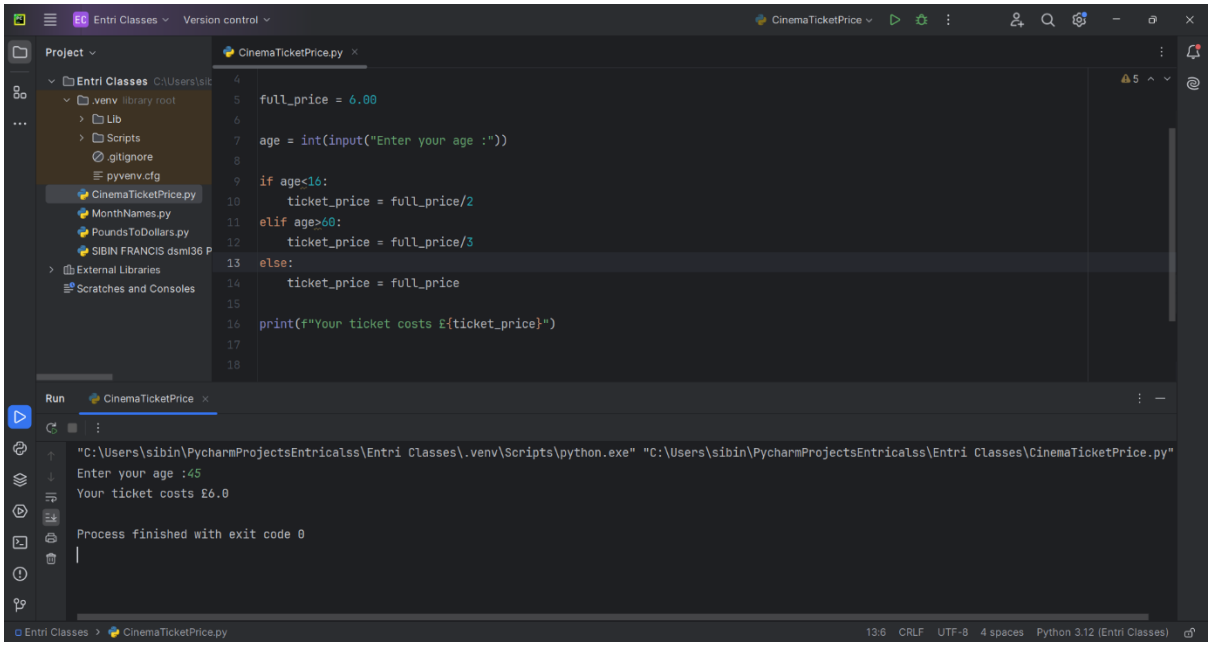




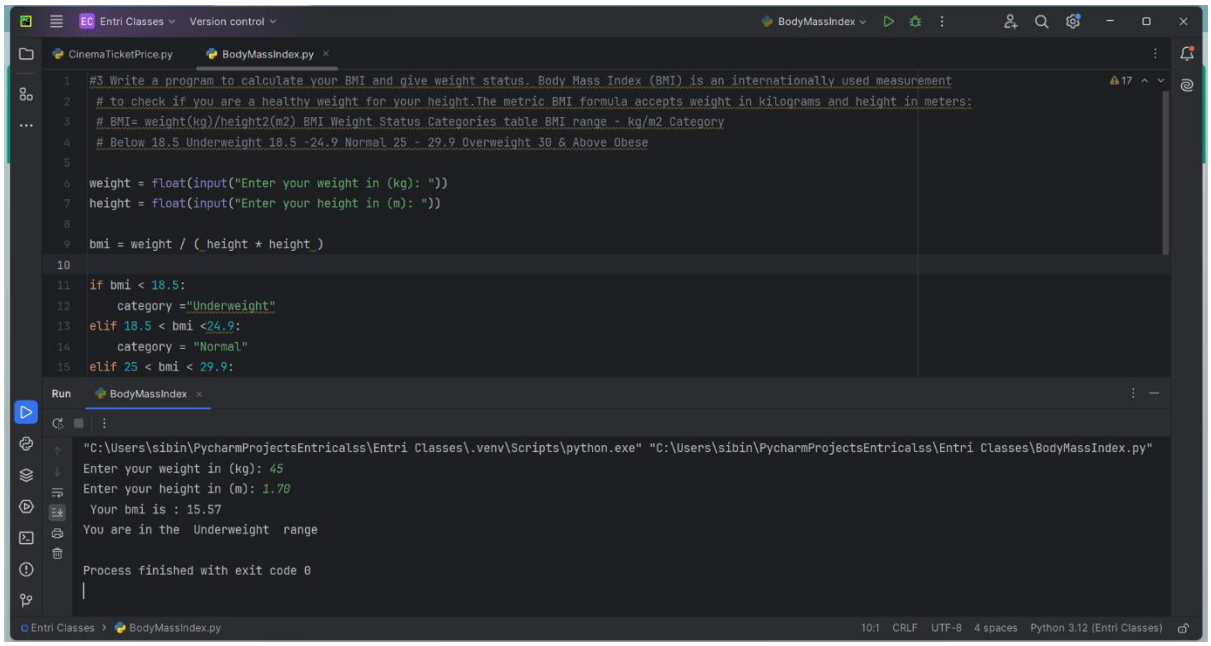
- **A program where certain cinema currently sells tickets for a full price of 6 pounds, but always sells tickets for half price to people who are less than 16 years old, and for a third of the price for people who are 60 years old or more**

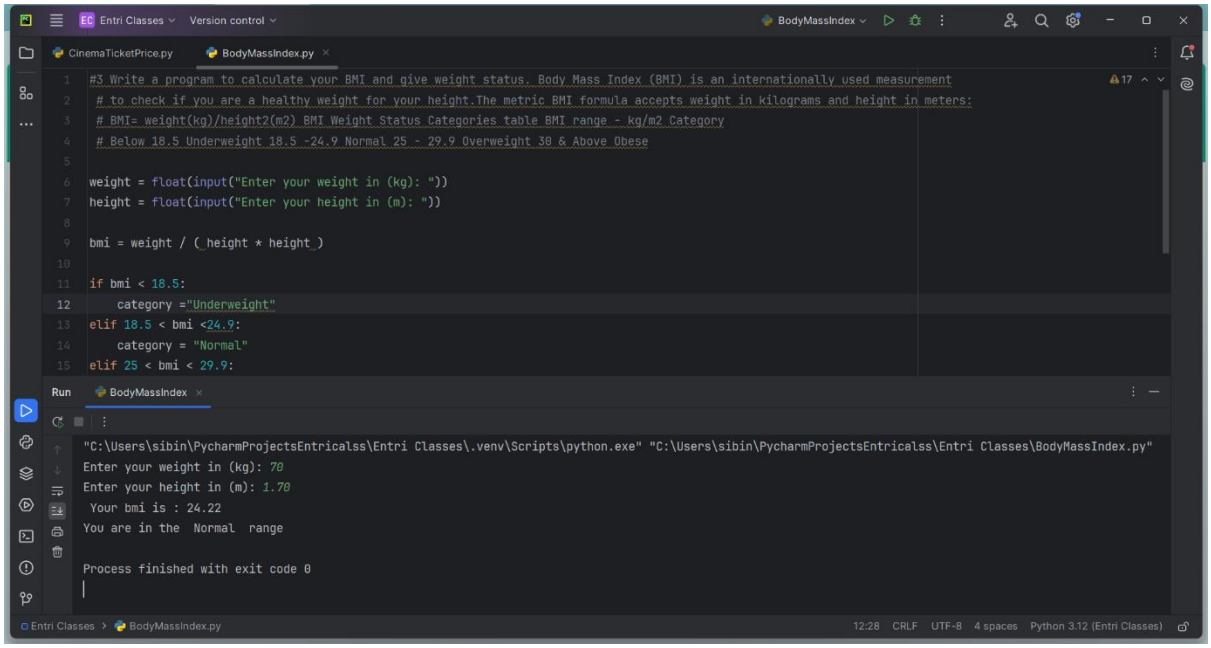


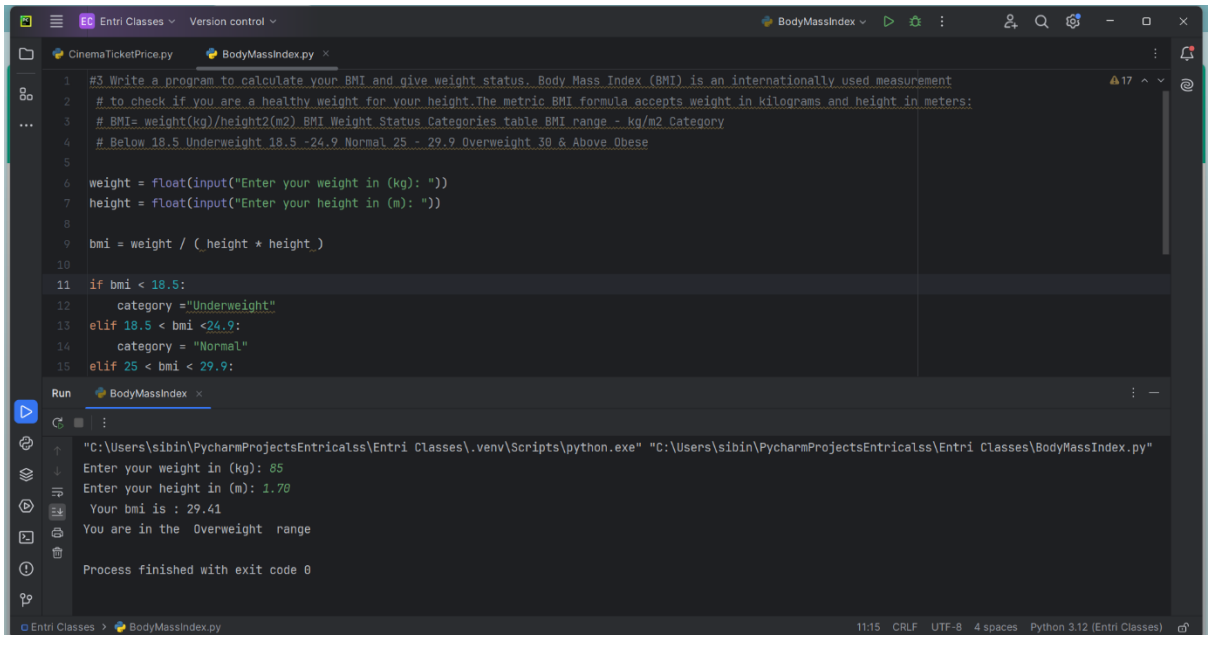




➢ A program to calculate your BMI and give weight status.




Entri Classes
Version control
BodyMassIndex
CinemaTicketPrice.py
BodyMassIndex.py
#3 Write a program to calculate your BMI and give weight status. Body Mass Index (BMI) is an internationally used measurement
# to check if you are a healthy weight for your height.The metric BMI formula accepts weight in kilograms and height in meters:
# BMI= weight(kg)/height2(m2) BMI Weight Status Categories table BMI range - kg/m2 Category
# Below 18.5 Underweight 18.5 -24.9 Normal 25 - 29.9 Overweight 30 & Above Obese
weight = float(input("Enter your weight in (kg): "))
height = float(input("Enter your height in (m): "))
bmi = weight / (height * height)
if bmi < 18.5:
category ="Underweight"
elif 18.5 < bmi <24.9:
category = "Normal"
elif 25 < bmi < 29.9:
Run
BodyMassIndex
"C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\.venv\Scripts\python.exe" "C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\BodyMassIndex.py"
Enter your weight in (kg): 70
Enter your height in (m): 1.70
Your bmi is : 24.22
You are in the Normal range
Process finished with exit code 0
Entri Classes > BodyMassIndex.py
12:28 CRLF UTF-8 4 spaces Python 3.12 (Entri Classes)


Entri Classes
Version control
BodyMassIndex
CinemaTicketPrice.py
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#3 Write a program to calculate your BMI and give weight status. Body Mass Index (BMI) is an internationally used measurement
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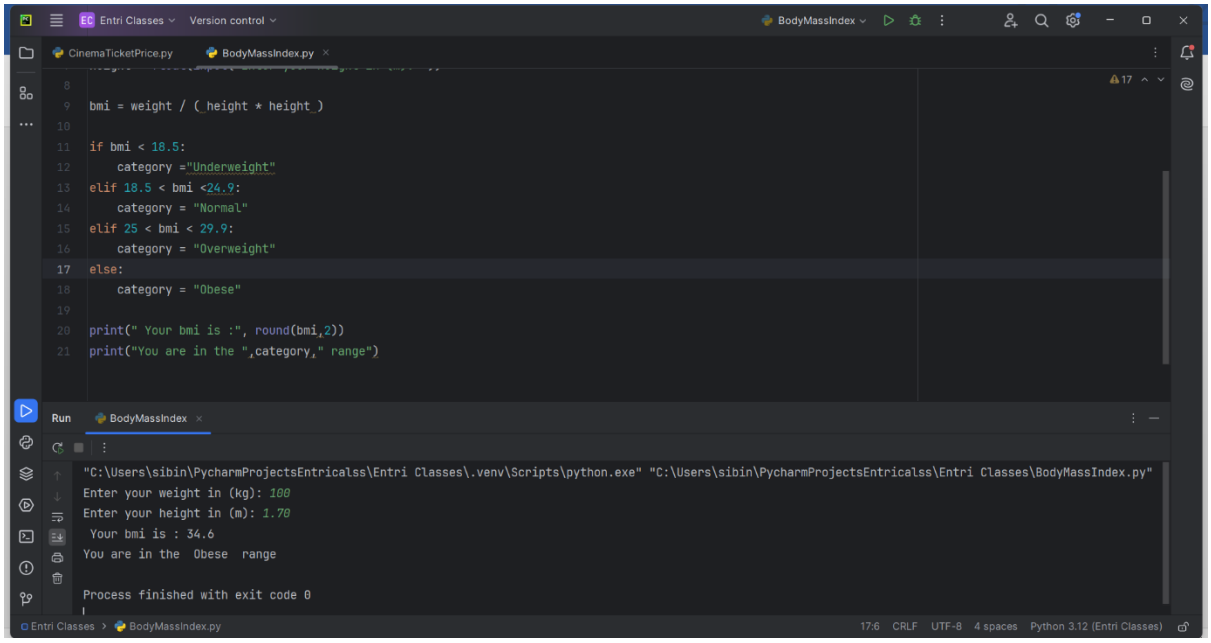
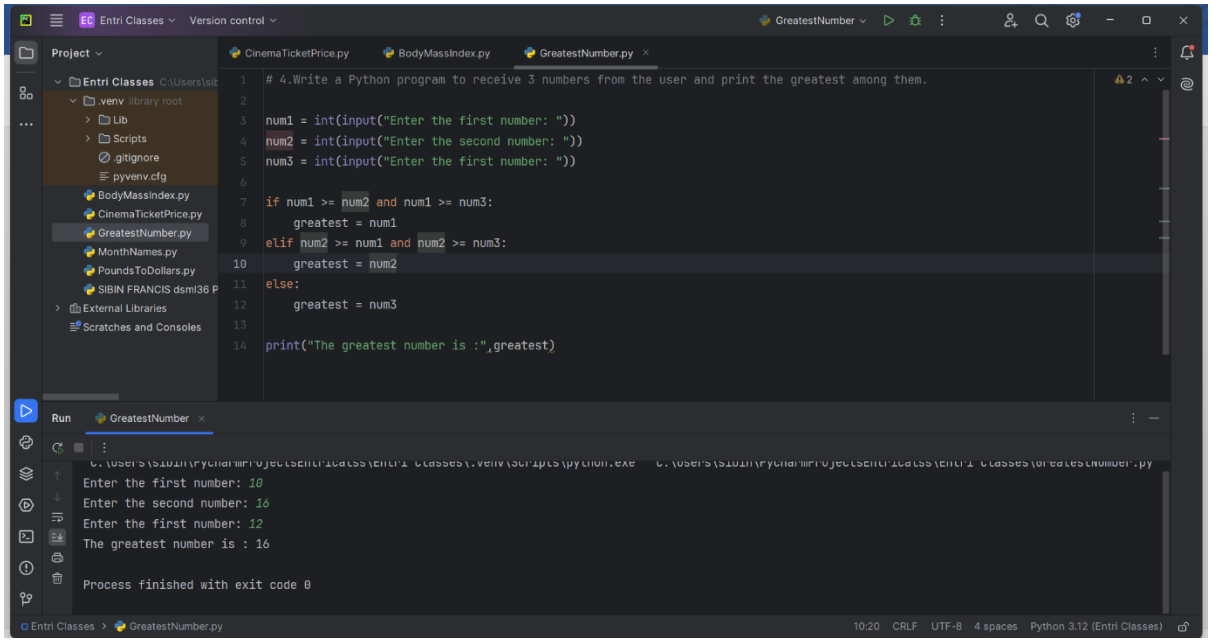
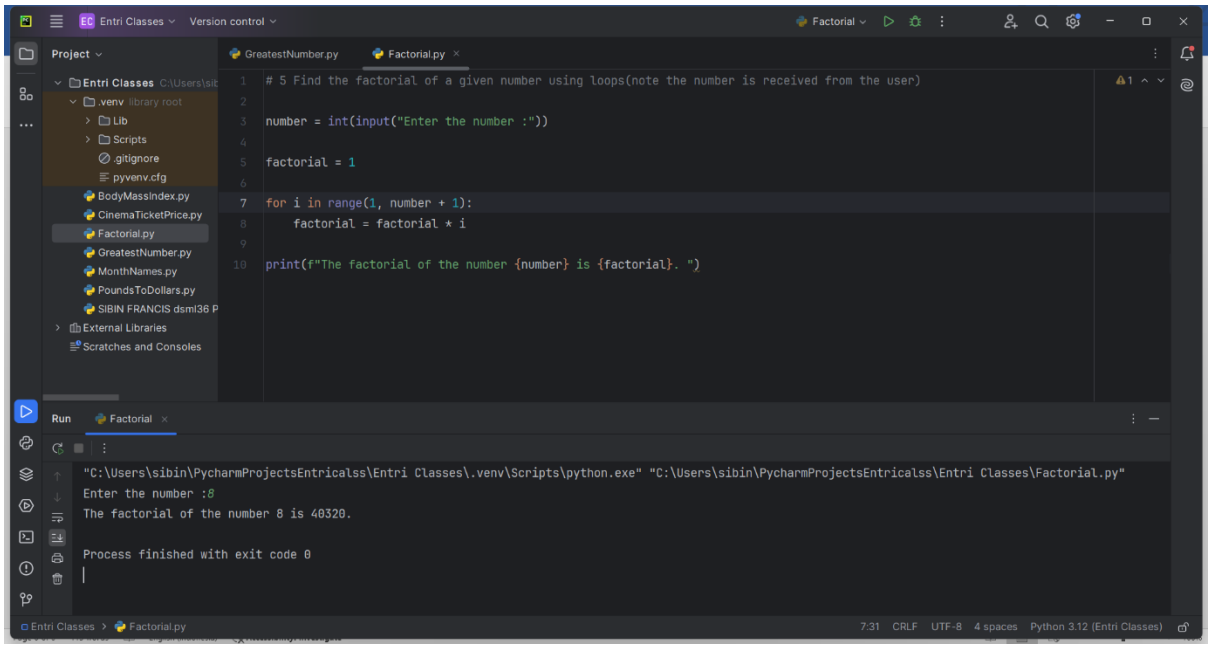
# BMI= weight(kg)/height2(m2) BMI Weight Status Categories table BMI range - kg/m2 Category
# Below 18.5 Underweight 18.5 -24.9 Normal 25 - 29.9 Overweight 30 & Above Obese
weight = float(input("Enter your weight in (kg): "))
height = float(input("Enter your height in (m): "))
bmi = weight / (height * height)
if bmi < 18.5:
category ="Underweight"
elif 18.5 < bmi <24.9:
category = "Normal"
elif 25 < bmi < 29.9:
Run
BodyMassIndex
"C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\.venv\Scripts\python.exe" "C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\BodyMassIndex.py"
Enter your weight in (kg): 85
Enter your height in (m): 1.70
Your bmi is : 29.41
You are in the Overweight range
Process finished with exit code 0
Entri Classes > BodyMassIndex.py
11:15 CRLF UTF-8 4 spaces Python 3.12 (Entri Classes)



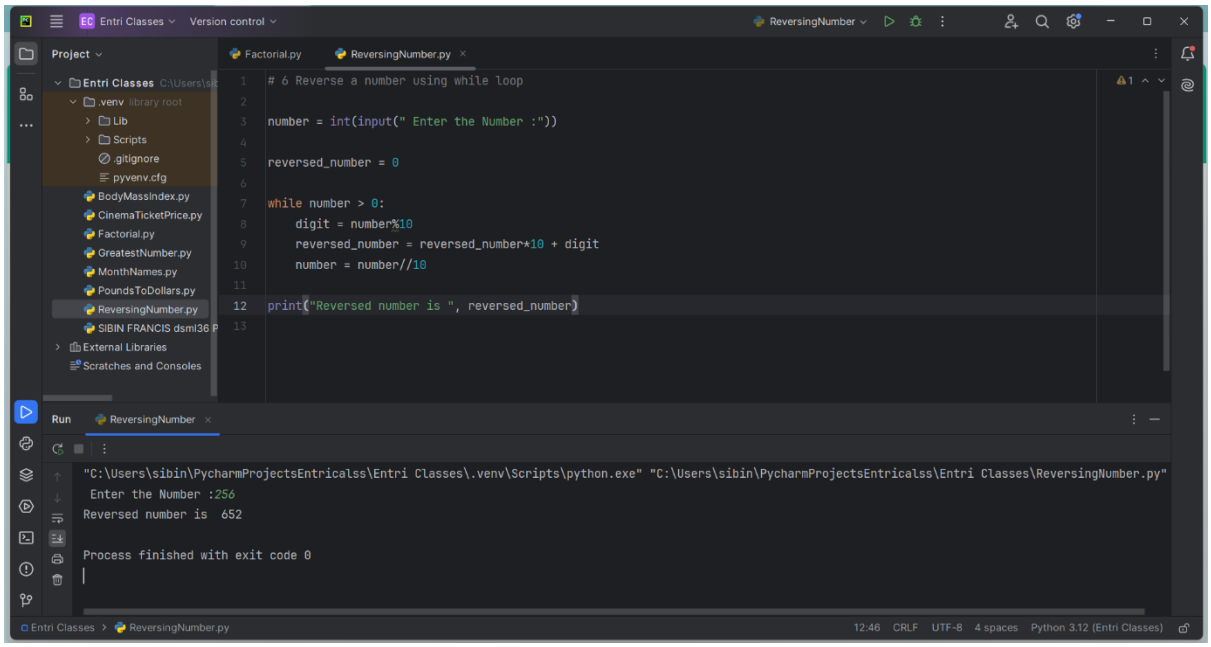
➢ A Python program to receive 3 numbers from the user and print the greatest among them.



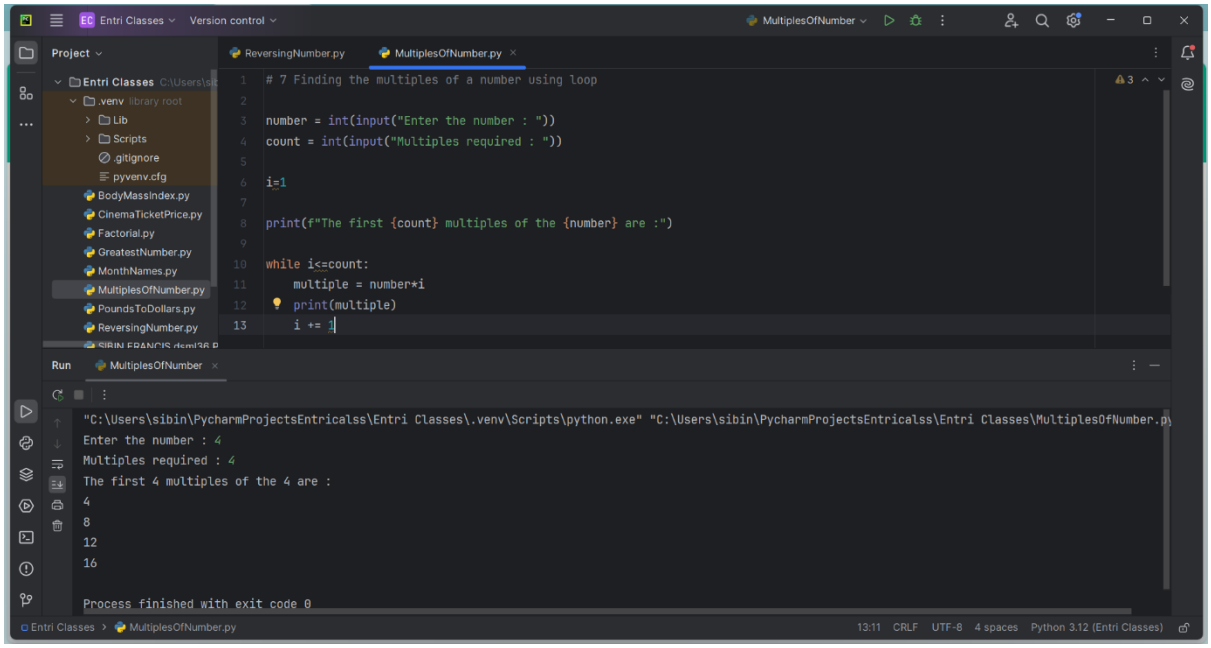
➢ The factorial of a given number using loops.



➢ Reverse a number using while loop.



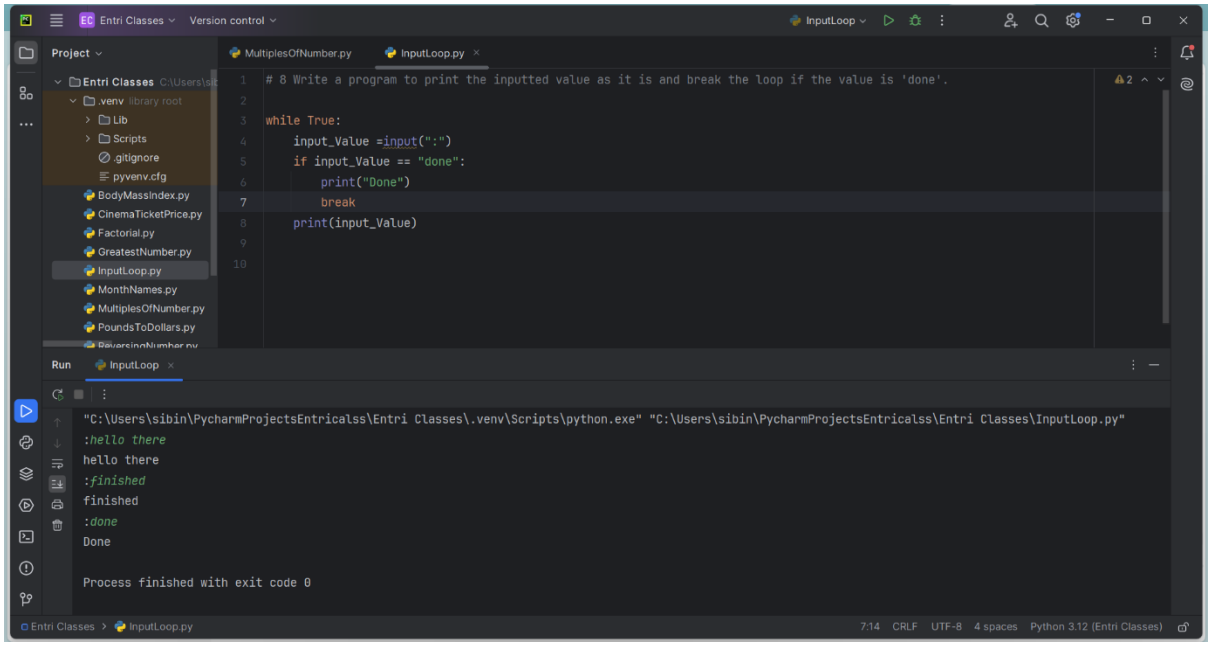
➢ Finding the multiples of a number using loop



```
# 7 Finding the multiples of a number using loop

number = int(input("Enter the number : "))
count = int(input("Multiples required : "))

i=1

print(f"The first {count} multiples of the {number} are :")

while i<=count:
    multiple = number*i
    print(multiple)
    i += 1
```

```
"C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\.venv\Scripts\python.exe" "C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\MultiplesOfNumber.p
Enter the number : 4
Multiples required : 4
The first 4 multiples of the 4 are :
4
8
12
16

Process finished with exit code 0
```

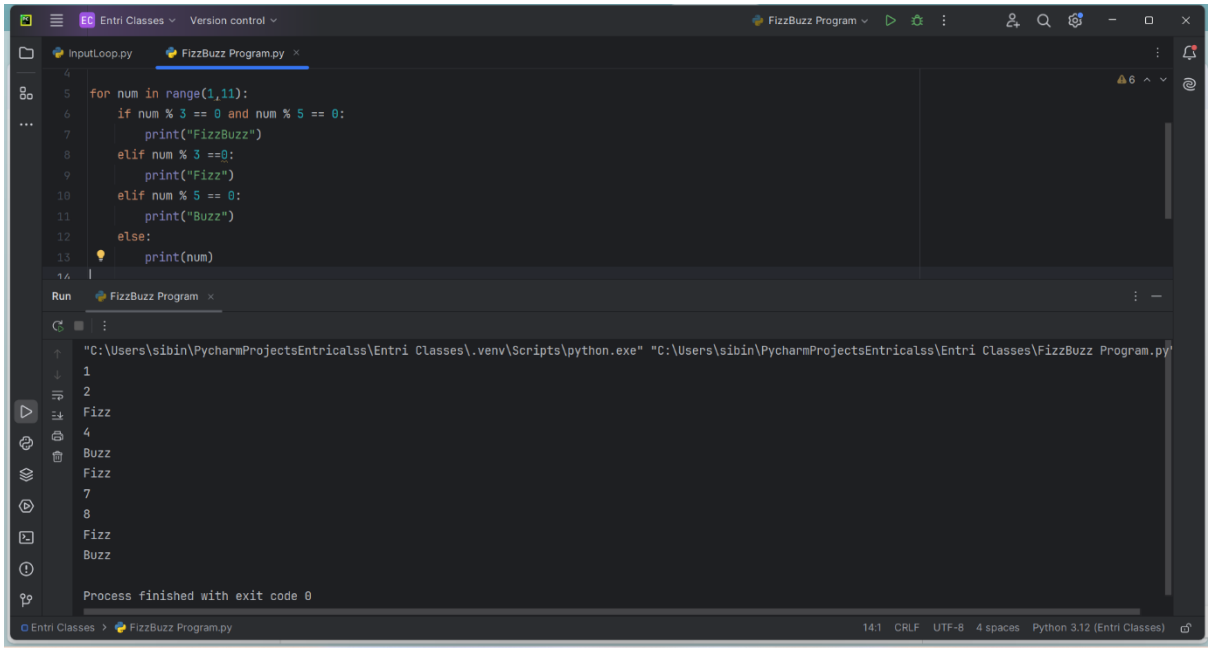
➢ A program to print the inputted value as it is and break the loop if the value is 'done'.



```
# 8 Write a program to print the inputted value as it is and break the loop if the value is 'done'.

while True:
    input_Value =input(":")
    if input_Value == "done":
        print("Done")
        break
    print(input_Value)
```

```
"C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\.venv\Scripts\python.exe" "C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\InputLoop.py"
:hello there
hello there
:finished
finished
:done
Done

Process finished with exit code 0
```

- **A program that prints the numbers from 1 to 10. But for multiples of three print "Fizz" instead of the number and for the multiple of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz"**



- **A program to print the following pattern:**

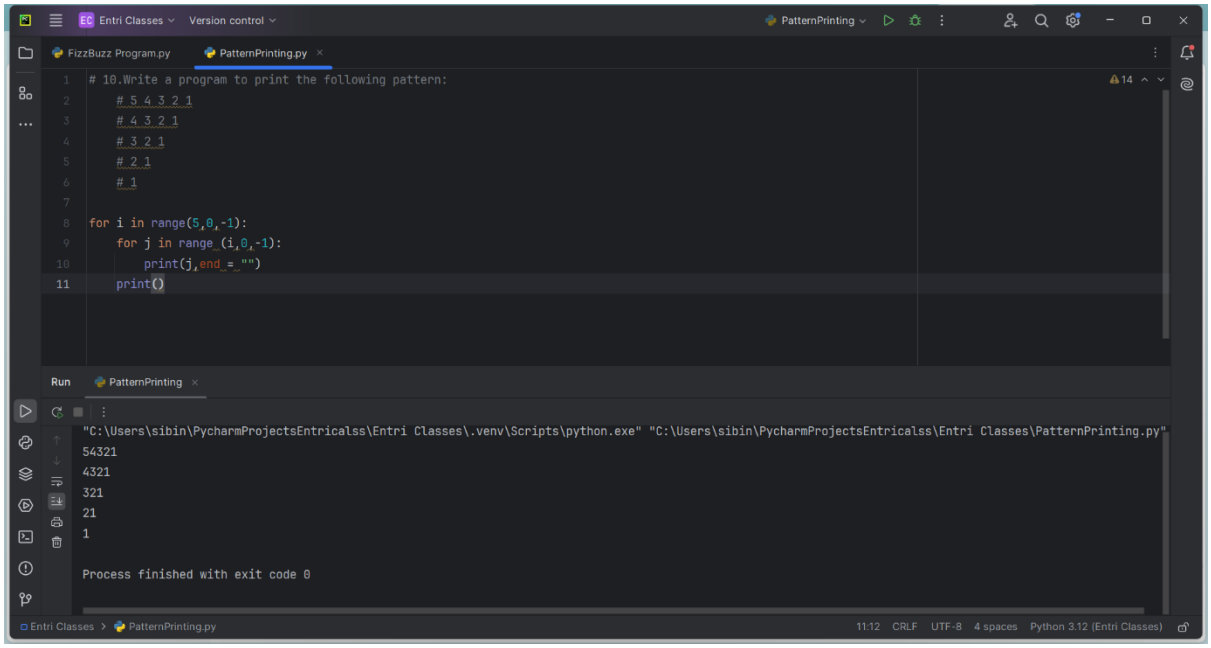
  5 4 3 2 1

  4 3 2 1

  3 2 1

  2 1

  1


Entri Classes
Version control
PatternPrinting
FizzBuzz Program.py
PatternPrinting.py
# 10.Write a program to print the following pattern:
# 5 4 3 2 1
# 4 3 2 1
# 3 2 1
# 2 1
# 1
for i in range(5,0,-1):
for j in range (i,0,-1):
print(j,end ="")
print()
Run
PatternPrinting
"C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\.venv\Scripts\python.exe" "C:\Users\sibin\PycharmProjectsEntricalss\Entri Classes\PatternPrinting.py"
54321
4321
321
21
1
Process finished with exit code 0
Entri Classes
PatternPrinting.py
11:12
CRLF
UTF-8
4 spaces
Python 3.12 (Entri Classes)