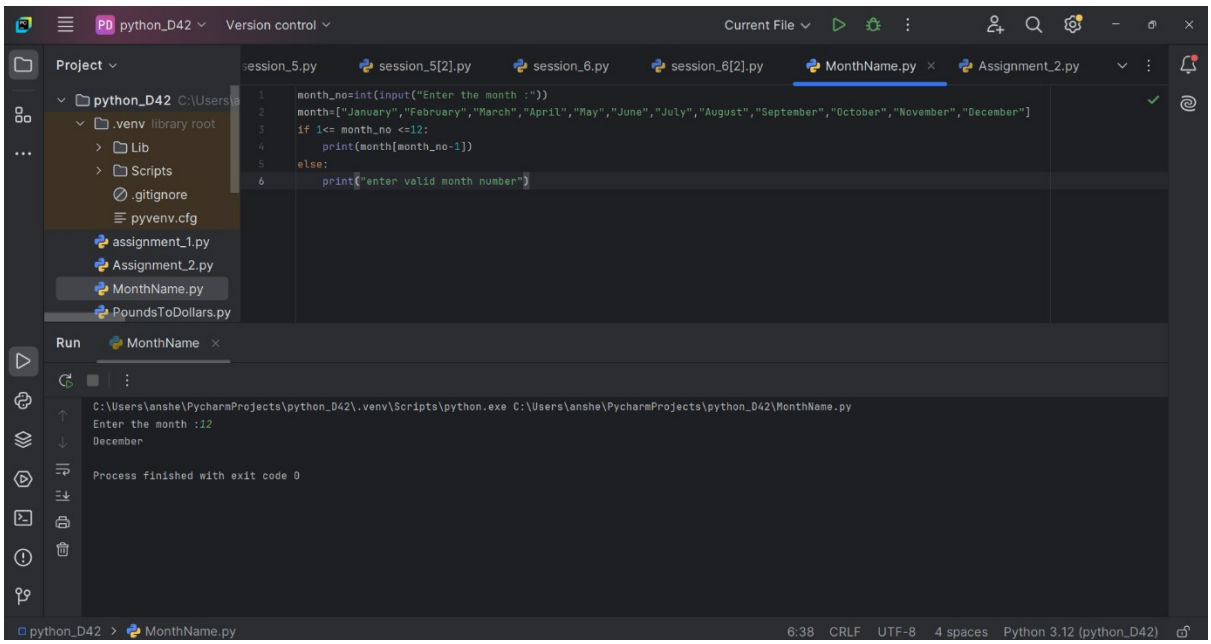
Exercise 1:

Name your file: MonthNames.py Write a program that reads an integer value between 1 and 12 from the user and prints output the corresponding month of the year.

Code:

```
 month_no=int(input("Enter the month :"))
month=["January","February","March","April","May","June","July","August","Sept
ember","October","November","December"]
 if 1<= month_no <=12:
    print(month[month_no-1])
else:
    print("enter valid month number")
```

result:



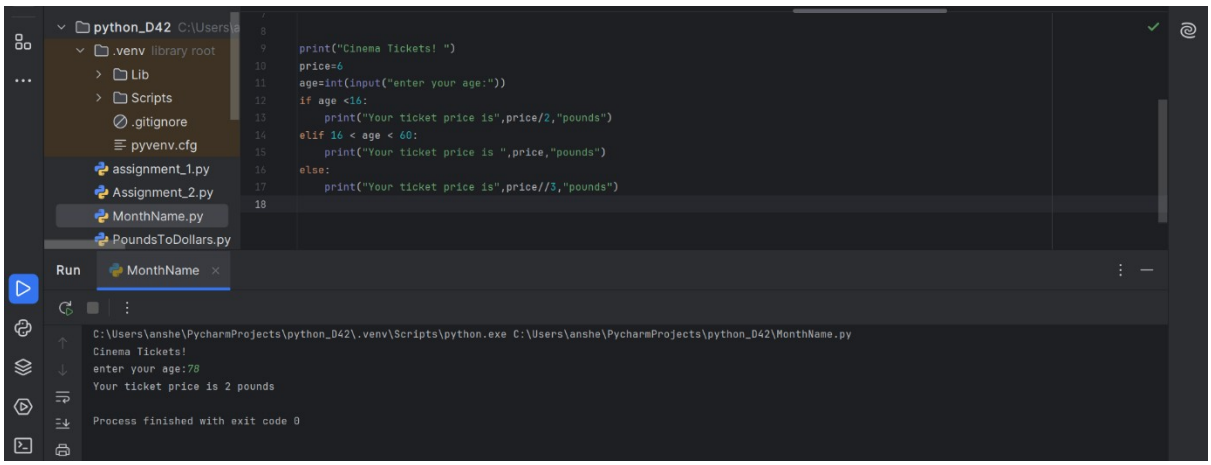
Exercise 2:

A 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.

Code:

```
print("Cinema Tickets! ")
price=6
age=int(input("enter your age:"))
if age <16:
    print("Your ticket price is",price/2,"pounds")
elif 16 < age < 60:
    print("Your ticket price is ",price,"pounds")
else:
    print("Your ticket price is",price//3,"pounds")
```

result:



Exercise-3:

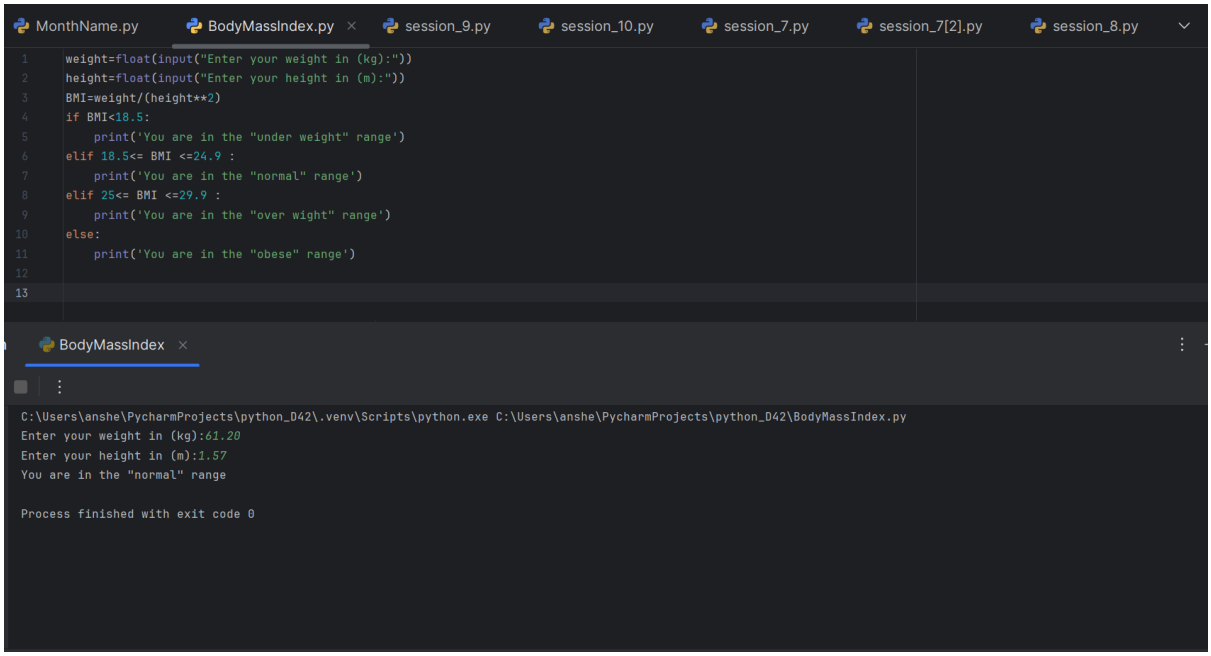
Write a program to calculate your BMI and give weight status.

Code:

```
weight=float(input("Enter your weight in (kg):"))
height=float(input("Enter your height in (m):"))
BMI=weight/(height**2)
if BMI<18.5:
    print('You are in the "under weight" range')
elif 18.5<= BMI <=24.9 :
    print('You are in the "normal" range')
elif 25<= BMI <=29.9 :
```

```
    print('You are in the "over wight" range')
else:
    print('You are in the "obese" range')
```

result:



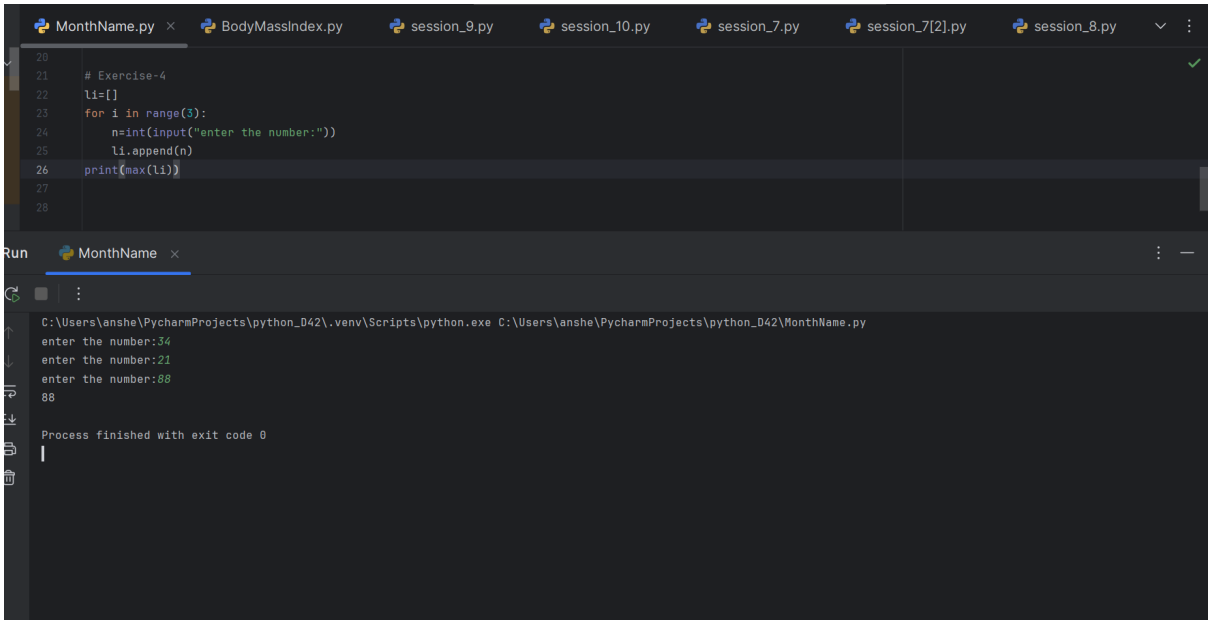
Exercise-4:

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

Code:

```
li=[]
for i in range(3):
    n=int(input("enter the number:"))
    li.append(n)
print(max(li))
```

result:



Exercise-5:

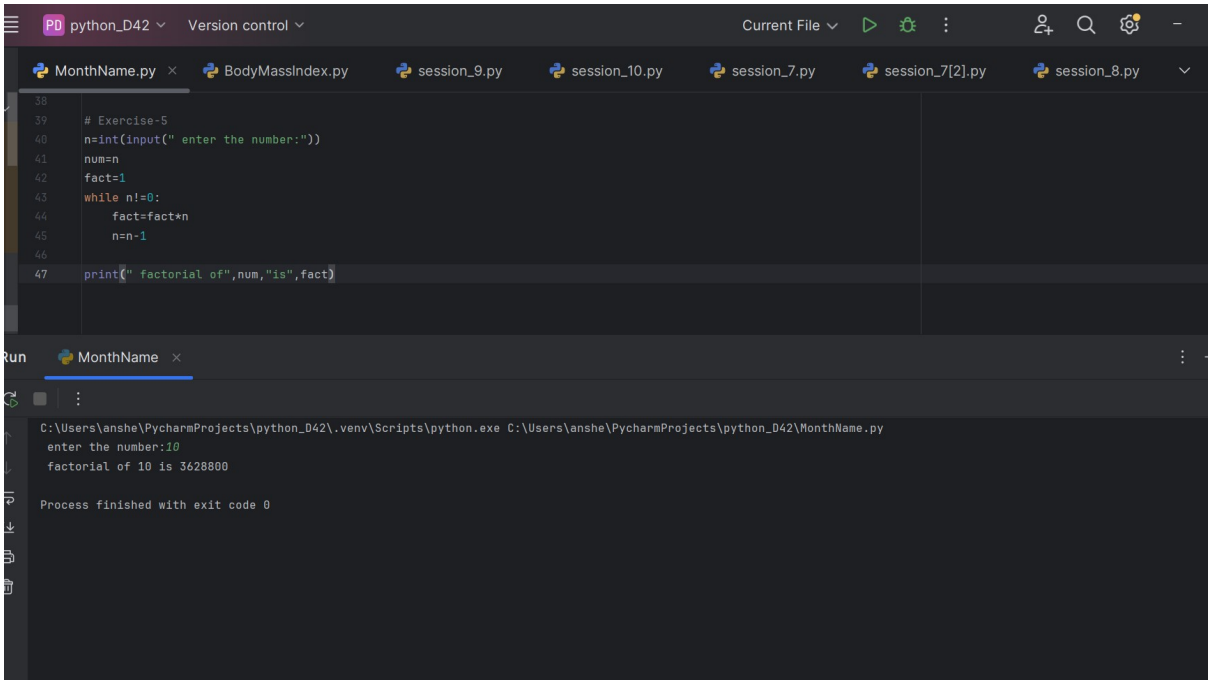
factorial of a given number using loops

code:

```
n=int(input(" enter the number:"))
num=n
fact=1
while n!=0:
    fact=fact*n
    n=n-1

print(" factorial of",num,"is",fact)
```

result:



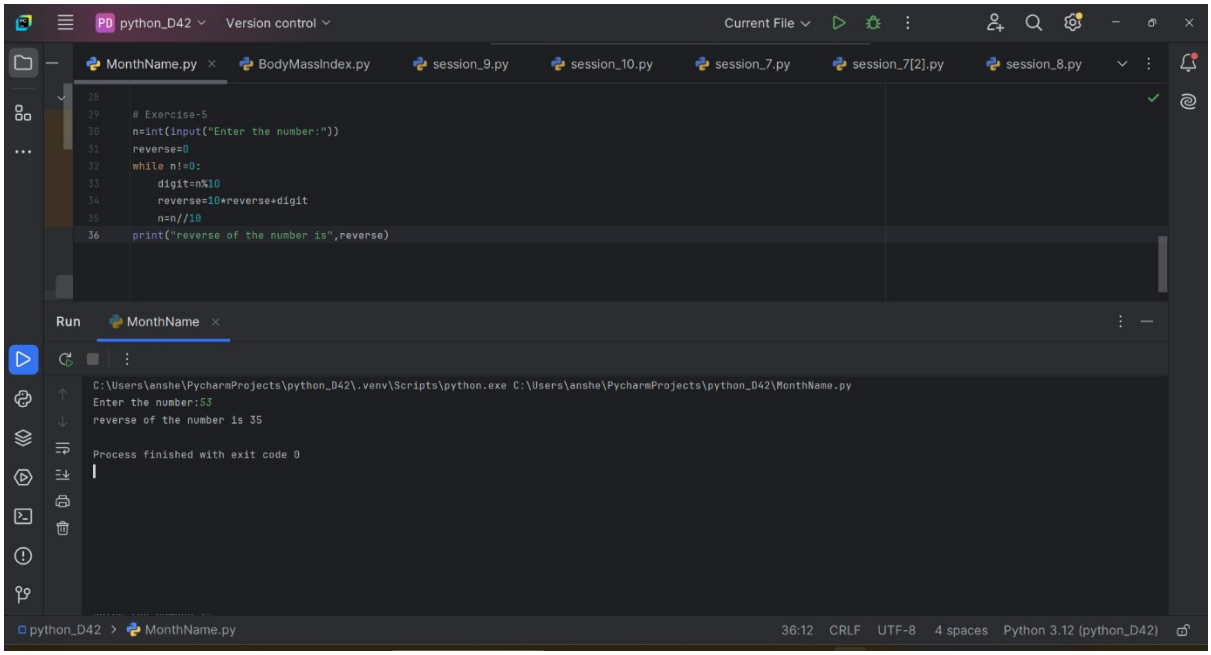
Exercise-6:

Reverse a number using while loop

Code:

```
n=int(input("Enter the number:"))
reverse=0
while n!=0:
    digit=n%10
    reverse=10*reverse+digit
    n=n//10
print("reverse of the number is",reverse)
```

result:



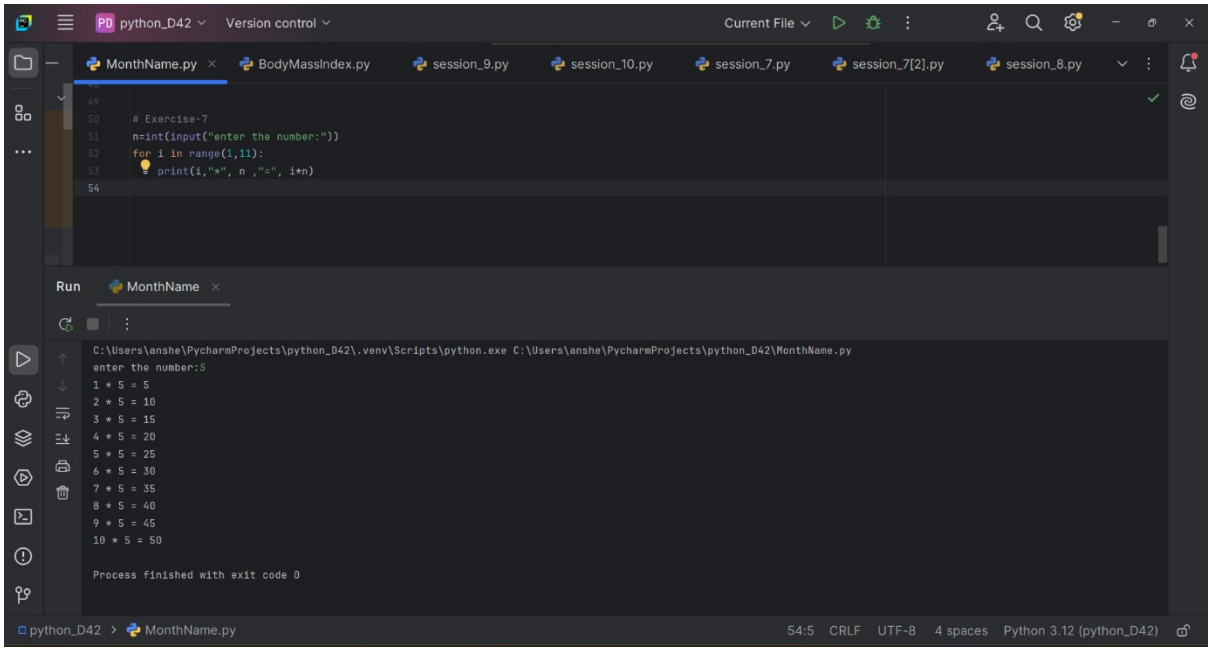
Exercise-7:

Finding the multiples of a number using loop

Code:

```
n=int(input("enter the number:"))
for i in range(1,11):
    print(i,"*", n ,"=", i*n)
```

result:



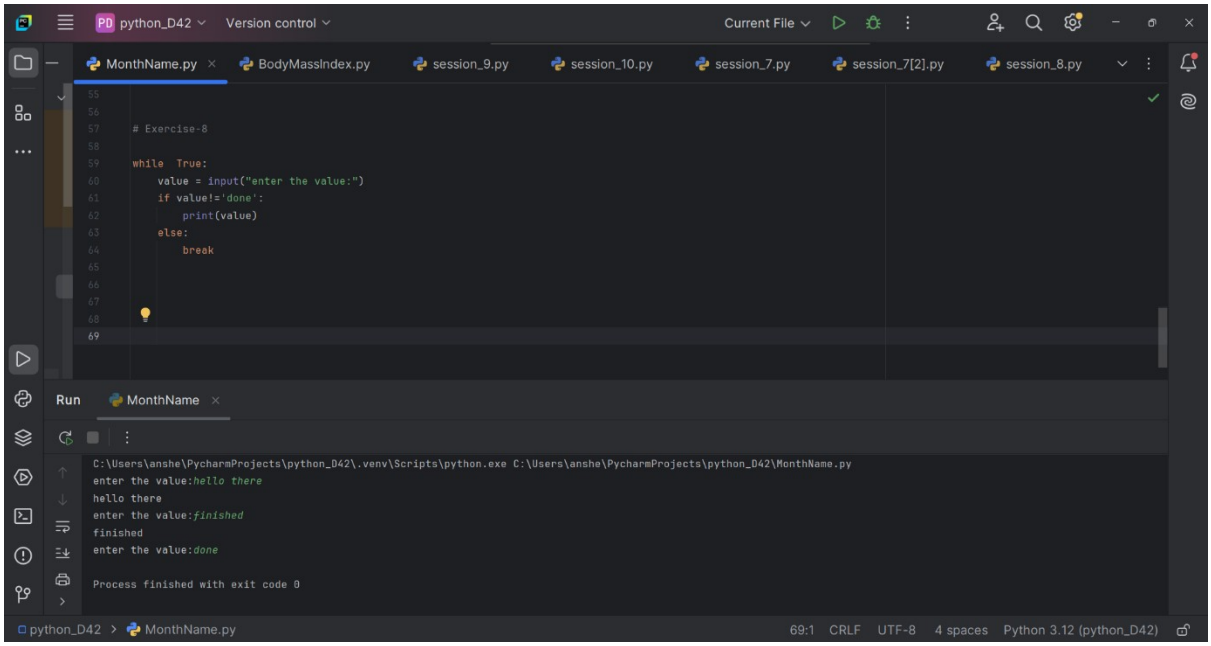
Exercise-8:

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

Code:

```
while  True:
    value = input("enter the value:")
    if value!='done':
        print(value)
    else:
        break
```

result:



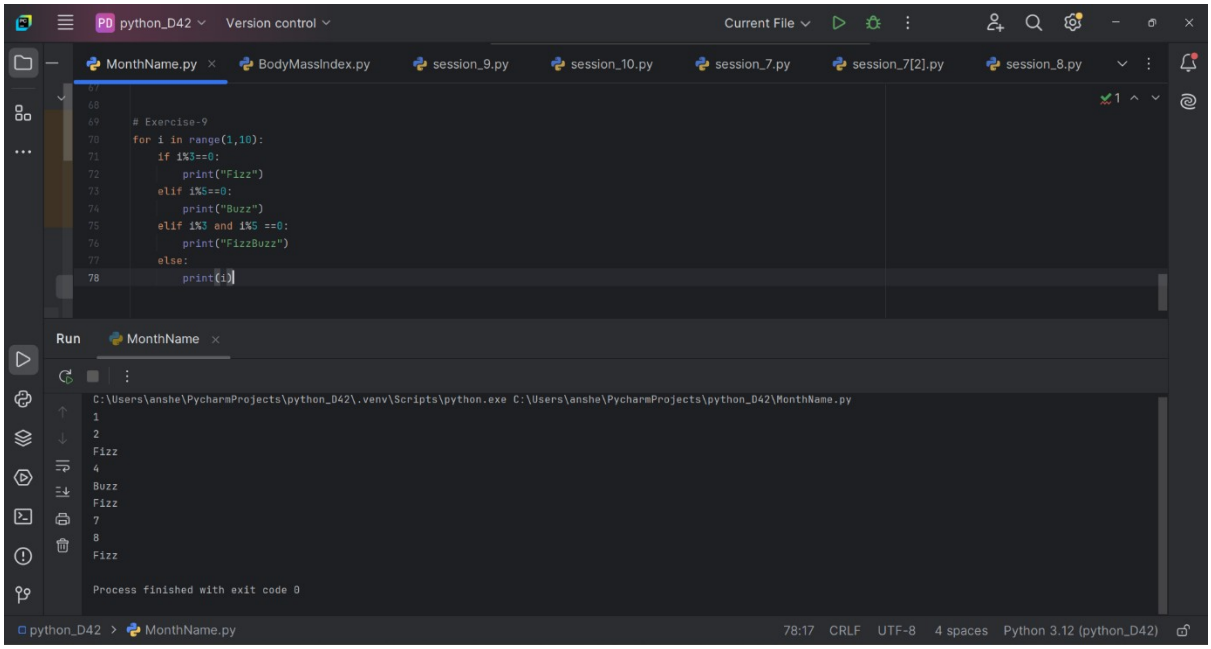
Exercise-9:

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".

code:

```
for i in range(1,10):
    if i%3==0:
        print("Fizz")
    elif i%5==0:
        print("Buzz")
    elif i%3 and i%5 ==0:
        print("FizzBuzz")
    else:
        print(i)
```

result:



Exercise-10:

program to print the following pattern:

5 4 3 2 1

4 3 2 1

3 2 1

2 1

1

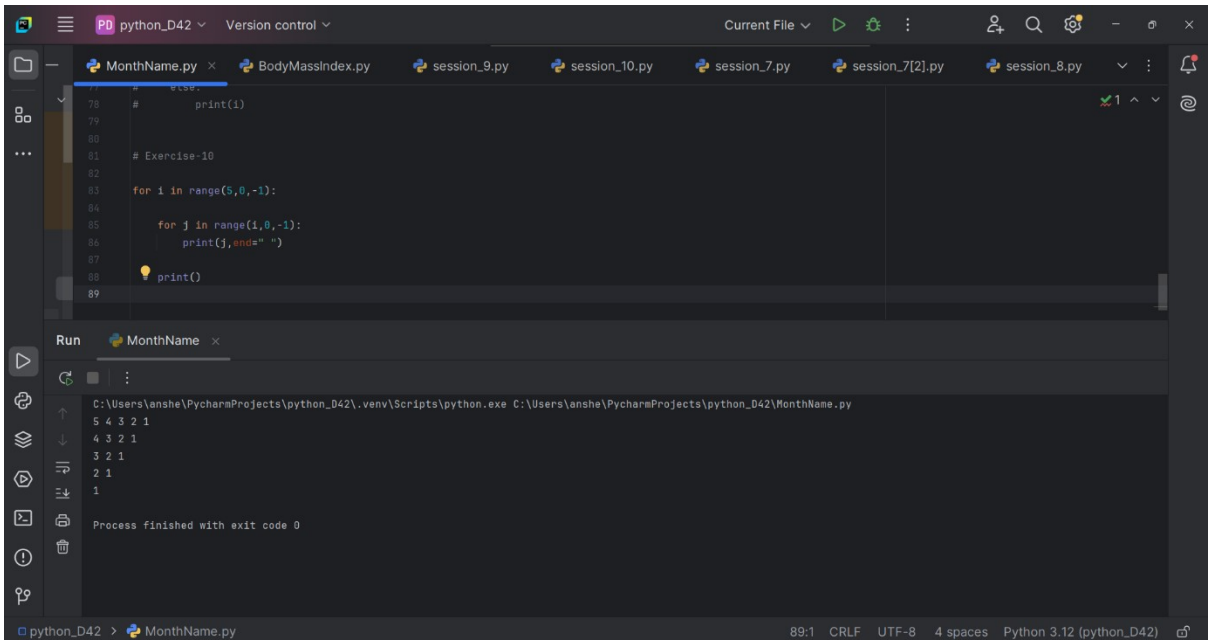
Code:

```
for i in range(5,0,-1):

    for j in range(i,0,-1):
        print(j,end=" ")

    print()
```

result:


python_D42
Version control
Current File
MonthName.py
BodyMassIndex.py
session_9.py
session_10.py
session_7.py
session_7[2].py
session_8.py
# Exercise-10
for i in range(5,0,-1):
for j in range(i,0,-1):
print(j,end=" ")
print()
Run
MonthName
C:\Users\anshe\PycharmProjects\python_D42\.venv\Scripts\python.exe C:\Users\anshe\PycharmProjects\python_D42\MonthName.py
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
Process finished with exit code 0
python_D42 > MonthName.py
89:1 CRLF UTF-8 4 spaces Python 3.12 (python_D42)