

The image shows a code editor window with a dark theme. The top bar displays the project name 'entri_d41_python_project' and 'Version control'. Below the top bar, there are tabs for several files: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py' (which is the active file), 'BodyMassIndex.py', and 'PoundstoDollars.py'. The main editor area contains a Python script. The script starts with a comment on line 1: '# Name your file: MonthNames.py'. Line 2 is a comment: '# 1 Write a program that reads an integer value between 1 and 12'. Line 3 is another comment: '# from the user and prints output the corresponding month of the year.'. Line 4 is empty. Line 5 is 'x=int(input('Enter a month number (1- 12): '))'. Line 6 is 'if x==1:'. Line 7 is ' print('Month',x,'is January')'. Line 8 is 'elif x==2:'. Line 9 is ' print('Month', x, 'is February')'. Line 10 is 'elif x==3:'. Line 11 is ' print('Month', x, 'is March')'. Line 12 is 'elif x==4:'. Line 13 is ' print('Month', x, 'is April')'. Line 14 is 'elif x==5:'. Line 15 is ' print('Month', x, 'is May')'. Line 16 is 'elif x == 6:'. Line 17 is ' print('Month', x, 'is June')'. Line 18 is 'elif x == 7:'. Line 19 is ' print('Month', x, 'is July')'. Line 20 is 'elif x == 8:'. Line 21 is ' print('Month', x, 'is August')'. Line 22 is 'elif x == 9:'. The script is not yet complete, as it only covers months 1 through 9. The left sidebar shows icons for file explorer, search, and other IDE features.

```
1 # Name your file: MonthNames.py
2 # 1 Write a program that reads an integer value between 1 and 12
3 # from the user and prints output the corresponding month of the year.
4
5 x=int(input('Enter a month number (1- 12): '))
6 if x==1:
7     print('Month',x,'is January')
8 elif x==2:
9     print('Month', x, 'is February')
10 elif x==3:
11     print('Month', x, 'is March')
12 elif x==4:
13     print('Month', x, 'is April')
14 elif x==5:
15     print('Month', x, 'is May')
16 elif x == 6:
17     print('Month', x, 'is June')
18 elif x == 7:
19     print('Month', x, 'is July')
20 elif x == 8:
21     print('Month', x, 'is August')
22 elif x == 9:
```

```
EP entri_d41_python_project Version control Session1 Tuple.py Statement.py MonthNames.py BodyMassIndex.py PoundstoDollars.py
16 elif x == 6:
17     print('Month', x, 'is June')
18 elif x == 7:
19     print('Month', x, 'is July')
20 elif x == 8:
21     print('Month', x, 'is August')
22 elif x == 9:
23     print('Month', x, 'is September')
24 elif x == 10:
25     print('Month', x, 'is October')
26 elif x == 11:
27     print('Month', x, 'is November')
28 elif x == 12:
29     print('Month', x, 'is December')
30 else:
31     print('Wrong month number')
32
33 # 2 A certain cinema currently sells tickets for a full price of 6 pounds,
34 # but always sells tickets for half price to people who are less than
35 # 16 years old, and for a third of the price for people who are 60
36 # years old or more.
37
```

```
Session1.py Tuple.py Statement.py MonthNames.py BodyMassIndex.py PoundstoDollars.py
19 print('Month', x, 'is July')
20 elif x == 8:
21     print('Month', x, 'is August')
22 elif x == 9:
23     print('Month', x, 'is September')
24 elif x == 10:
25     print('Month', x, 'is October')
26 elif x == 11:
27     print('Month', x, 'is November')
28 elif x == 12:
29     print('Month', x, 'is December')
30 else:
31     print('Wrong month number')
32

Run MonthNames x
C:\Users\user\PycharmProjects\entri_d41_python_project\.venv\Scripts\python.exe C:\Users\user\PycharmProjects\entri_d41_pytho
Enter a month number (1- 12): 10
Month 10 is October
Enter your age:
```

The image shows a code editor window with a dark theme. The top bar displays the project name 'entri_d41_python_project' and 'Version control'. The editor has several tabs open: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py' (which is the active file), 'BodyMassIndex.py', and 'PoundstoDollars.py'. The code in 'MonthNames.py' is as follows:

```
34 # but always sells tickets for half price to people who are less than
35 # 16 years old, and for a third of the price for people who are 60
36 # years old or more.
37
38 Age=int(input('Enter your age: '))
39 if Age<16:
40     print('Your ticket costs ', '\u00A33.00')
41 elif Age>=60:
42     print('Your ticket costs ', '\u00A32.00')
43 else:
44     print('Your ticket costs ', '\u00A36.00')
45
```

Below the editor is a 'Run' console window. It shows the output of the program when executed. The first line is 'month 10 is october'. The second line is 'Enter your age: 24'. The third line is 'Your ticket costs £6.00'. The final line is 'Process finished with exit code 0'.

```
Run MonthNames
month 10 is october
Enter your age: 24
Your ticket costs £6.00
Process finished with exit code 0
```

```
EP entri_d41_python_project Version control Current File
Session1.py Tuple.py Statement.py MonthNames.py BodyMassIndex.py PoundsToDollars.py
1 # Name your file: BodyMassIndex.py
2 # 3 Write a program to calculate your BMI and give weight status.
3 # Body Mass Index (BMI) is an internationally used measurement to check if you are a healthy weight for your height.
4 # The metric BMI formula accepts weight in kilograms and height in meters:
5 # BMI= weight(kg)/height2(m2) BMI Weight Status Categories table BMI range - kg/m2
6 # Category Below 18.5 Underweight 18.5 -24.9 Normal 25 - 29.9 Overweight 30 & Above Obese
7 # An example run of the program (numbers in bold are typed in by the user)
8 # Enter your weight in (kg): 75 Enter your height in (m): 1.70 Your BMI is: 25.95
9 # You are in the "overweight" range.from math import factorial
10
11 a=float(input('Enter your weight in (kg): '))
12 b=float(input('Enter your height in (m): '))
13 BMI=a/(b*b)
14 print('Your BMI is: ',BMI)
15 if BMI<18.5:
16     print('You are in "underweight"')
17 elif 18.5<= BMI <=24.9:
18     print('You are in "normalweight"')
19 elif 25<= BMI <=29.9:
20     print('You are in "over weight"')
21 else:
22     print('You are in "Above obese"')
```

The image shows a PyCharm IDE window with a project named 'entri_d41_python_project'. The 'BodyMassIndex.py' file is open and contains the following code:

```
1 # Name your file: BodyMassIndex.py
2 # 3 Write a program to calculate your BMI and give weight status.
3 # Body Mass Index (BMI) is an internationally used measurement to check if you are a healthy weight for your height.
4 # The metric BMI formula accepts weight in kilograms and height in meters:
5 # BMI= weight(kg)/height2(m2) BMI Weight Status Categories table BMI range - kg/m2
6 # Category Below 18.5 Underweight 18.5 -24.9 Normal 25 - 29.9 Overweight 30 & Above Obese
7 # An example run of the program (numbers in bold are typed in by the user)
8 # Enter your weight in (kg): 75 Enter your height in (m): 1.70 Your BMI is: 25.95
9 # You are in the "overweight" range.from math import factorial
10
11 a=float(input('Enter your weight in (kg): '))
12 b=float(input('Enter your height in (m): '))
13 BMI=a/(b*b)
14 print('Your BMI is: ' BMI)
```

The 'Run' console at the bottom shows the execution of the program:

```
Run BodyMassIndex x
C:\Users\user\PycharmProjects\entri_d41_python_project\.venv\Scripts\python.exe C:\Users\user\PycharmProjects\entri_d41_pytho
Enter your weight in (kg): 54
Enter your height in (m): 1.6
Your BMI is: 21.093749999999996
You are in "normalweight"
Enter first number : |
```

The screenshot shows the PyCharm IDE interface. The top toolbar includes icons for file operations, search, and version control. The file explorer on the left shows a project named 'entri_d41_python_project' with several files: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py', 'BodyMassIndex.py' (selected), and 'PoundstoDollars.py'. The editor window displays the following Python code:

```
22     print('You are in "Above obese"')
23
24     # 4 Write a Python program to receive 3 numbers from the user and print
25     # the greatest among them.
26     a=float(input('Enter first number : '))
27     b=float(input('Enter second number : '))
28     c=float(input('Enter third number : '))
29     print('The numbers are :',a ,b ,c)
30     if b>a and b>c:
31         print('The greatest number is ',b)
32     elif a>b and a>c:
33         print('The greatest number is ',a)
34     else:
35         print('The greatest number is ' ,c)
```

Below the editor is the 'Run' console. It shows the execution of the 'BodyMassIndex' script. The output is as follows:

```
C:\Users\user\PycharmProjects\entri_d41_python_project\.venv\Scripts\python.exe C:\Users\user\PycharmProjects\entri_d41_pytho
Enter your weight in (kg): 54
Enter your height in (m): 1.6
Your BMI is: 21.093749999999996
You are in "normalweight"
Enter first number : |
```

The screenshot shows a code editor with a dark theme. The top bar indicates the project is 'entri_d41_python_project' and the current file is 'BodyMassIndex.py'. The editor contains Python code for finding the greatest of three numbers and a comment for finding a factorial. Below the editor is a terminal window showing the execution of the program with user inputs.

```
25 # the greatest among them.
26 a=float(input('Enter first number : '))
27 b=float(input('Enter second number : '))
28 c=float(input('Enter third number : '))
29 print('The numbers are : ',a ,b ,c)
30 if b>a and b>c:
31     print('The greatest number is ',b)
32 elif a>b and a>c:
33     print('The greatest number is ',a)
34 else:
35     print('The greatest number is ',c)
36
37 # 5 Find the factorial of a given number using loops(note the number is received from the user)
38 num=int(input('Enter a number: '))
```

Run BodyMassIndex x

```
Enter first number : 23
Enter second number : 12
Enter third number : 43
The numbers are : 23.0 12.0 43.0
The greatest number is 43.0
Enter a number:
```


The image shows a code editor window with a dark theme. The top bar displays the project name 'entri_d41_python_project' and a 'Version control' dropdown. Below the top bar, several file tabs are open: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py', 'BodyMassIndex.py' (which is the active file), and 'PoundstoDollars.py'. The main editor area contains Python code for two tasks. The first task, starting at line 37, is to find the factorial of a given number using loops. It prompts the user to 'Enter a number:' and uses a loop to calculate the factorial. The second task, starting at line 49, is to reverse a number using a while loop. Below the editor, a 'Run' console window is open, showing the output of the program. It displays the prompts and user inputs for the first task, followed by the calculated factorial, and then the prompts and user inputs for the second task, followed by the reversed number.

```
37 # 5 Find the factorial of a given number using loops(note the number is received from the user)
38 num=int(input('Enter a number: '))
39 factorial=1
40 if num==0 or num==1:
41     print('factorial is 1')
42 elif num<0:
43     print('Enter a positive number')
44 else:
45     for i in range(1,num+1):
46         factorial=factorial*i
47     print('Factorial of the number is ',factorial)
48
49 # 6 Reverse a number using while loop
50 x=int(input('Enter a number:'))
```

Run BodyMassIndex x

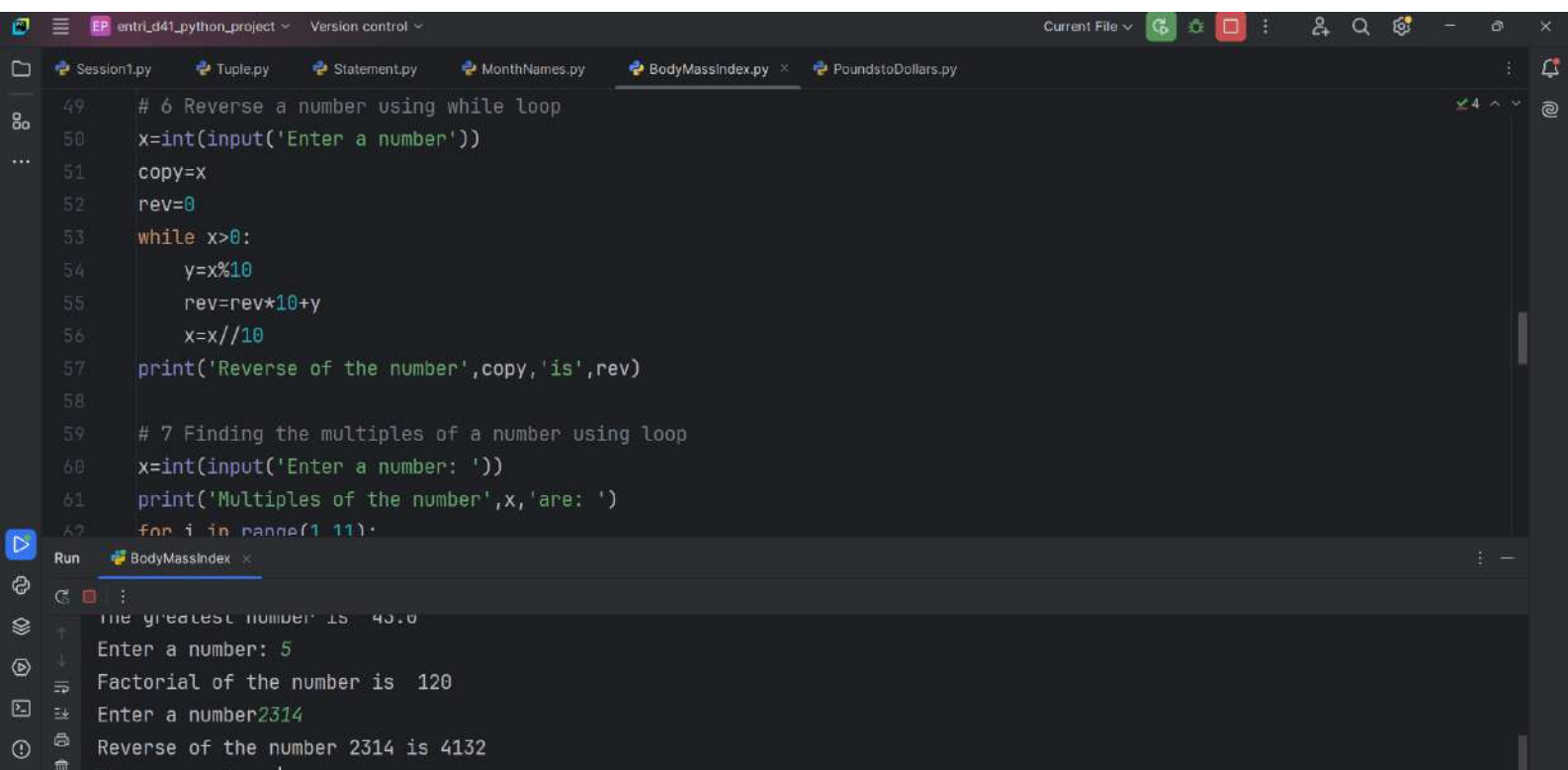
```
Enter first number : 23
Enter second number : 12
Enter third number : 43
The numbers are : 23.0 12.0 43.0
The greatest number is 43.0
Enter a number:
```

The image shows a code editor with a dark theme. The top bar displays the project name 'entri_d41_python_project' and 'Version control'. The editor has several tabs: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py', 'BodyMassIndex.py', and 'PoundstoDollars.py'. The 'BodyMassIndex.py' tab is active, showing the following Python code:

```
37 # 5 Find the factorial of a given number using loops(note the number is received from the user)
38 num=int(input('Enter a number: '))
39 factorial=1
40 if num==0 or num==1:
41     print('factorial is 1')
42 elif num<0:
43     print('Enter a positive number')
44 else:
45     for i in range(1,num+1):
46         factorial=factorial*i
47     print('Factorial of the number is ',factorial)
48
49 # 6 Reverse a number using while loop
50 num=int(input('Enter a number: '))
```

Below the editor is a 'Run' window with a 'BodyMassIndex' tab. It shows the output of the program:

```
Enter a number: 43
The numbers are : 23.0 12.0 43.0
The greatest number is 43.0
Enter a number: 5
Factorial of the number is 120
```



The screenshot shows a code editor with a dark theme. The top bar includes a file explorer on the left, a project name 'entri_d41_python_project' and 'Version control' in the center, and a 'Current File' dropdown on the right. The editor has several tabs open: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py', 'BodyMassIndex.py' (active), and 'PoundstoDollars.py'. The code in the active tab is as follows:

```
49 # 6 Reverse a number using while loop
50 x=int(input('Enter a number'))
51 copy=x
52 rev=0
53 while x>0:
54     y=x%10
55     rev=rev*10+y
56     x=x//10
57 print('Reverse of the number',copy,'is',rev)
58
59 # 7 Finding the multiples of a number using loop
60 x=int(input('Enter a number: '))
61 print('Multiples of the number',x,'are: ')
62 for i in range(1 11):
```

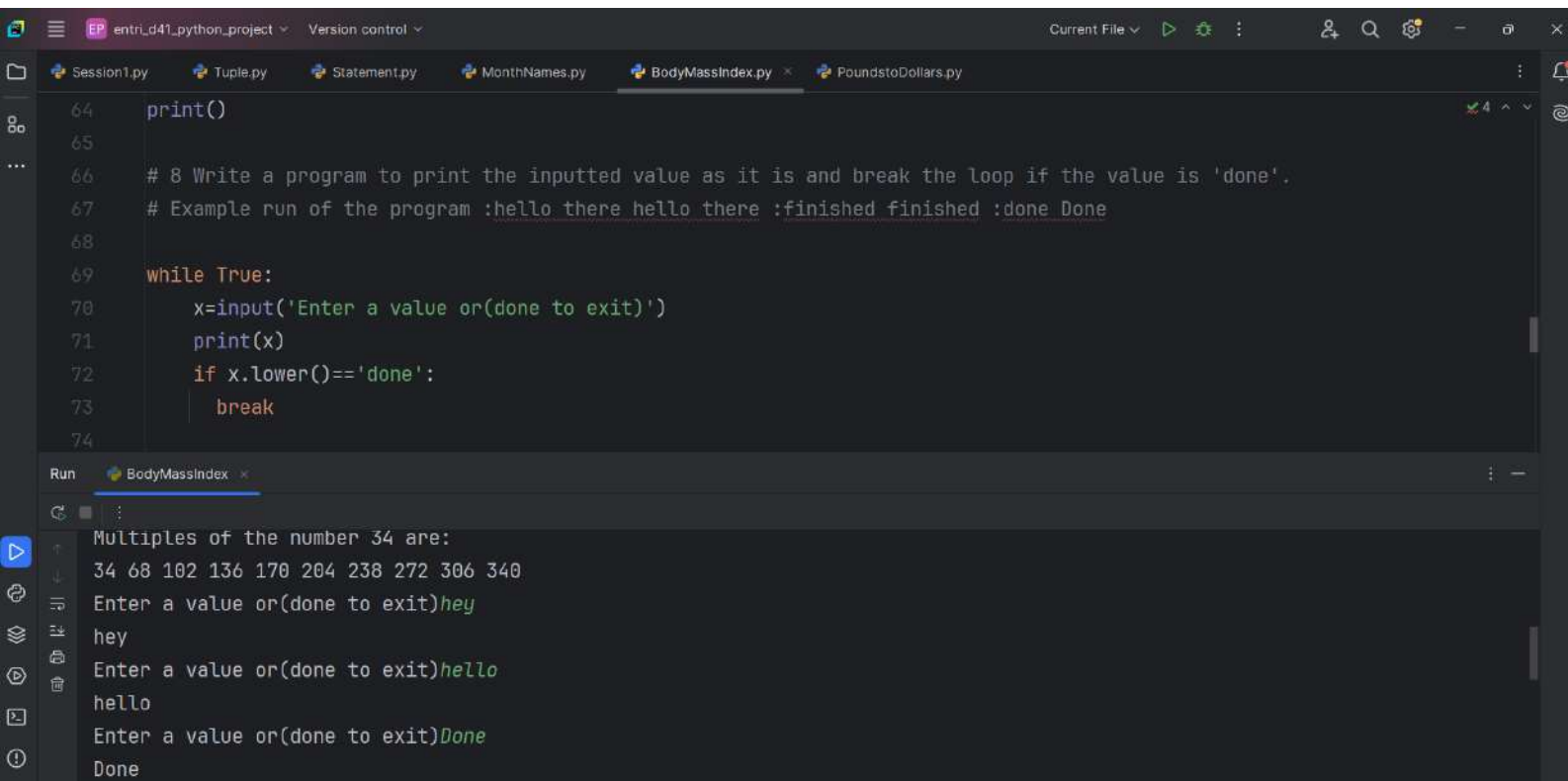
Below the editor is a 'Run' console for the 'BodyMassIndex' file. It shows the output of the program:

```
Run BodyMassIndex x
:
The greatest number is 43.0
Enter a number: 5
Factorial of the number is 120
Enter a number2314
Reverse of the number 2314 is 4132
```

```
58
59 # 7 Finding the multiples of a number using loop
60 x=int(input('Enter a number: '))
61 print('Multiples of the number',x,'are: ')
62 for i in range(1,11):
63     print(i*x,end=" ")
64 print()
65
66 # 8 Write a program to print the inputted value as it is and break the loop if the value is 'done'.
67 # Example run of the program :hello there hello there :finished finished :done Done
68 x=input('Enter a value or(done to exit)')
69 while x.lower()=='done':
70     break
71 else:
```

Run BodyMassIndex x

```
Enter a number: 2314
Reverse of the number 2314 is 4132
Enter a number: 12
Multiples of the number 12 are:
12 24 36 48 60 72 84 96 108 120
```



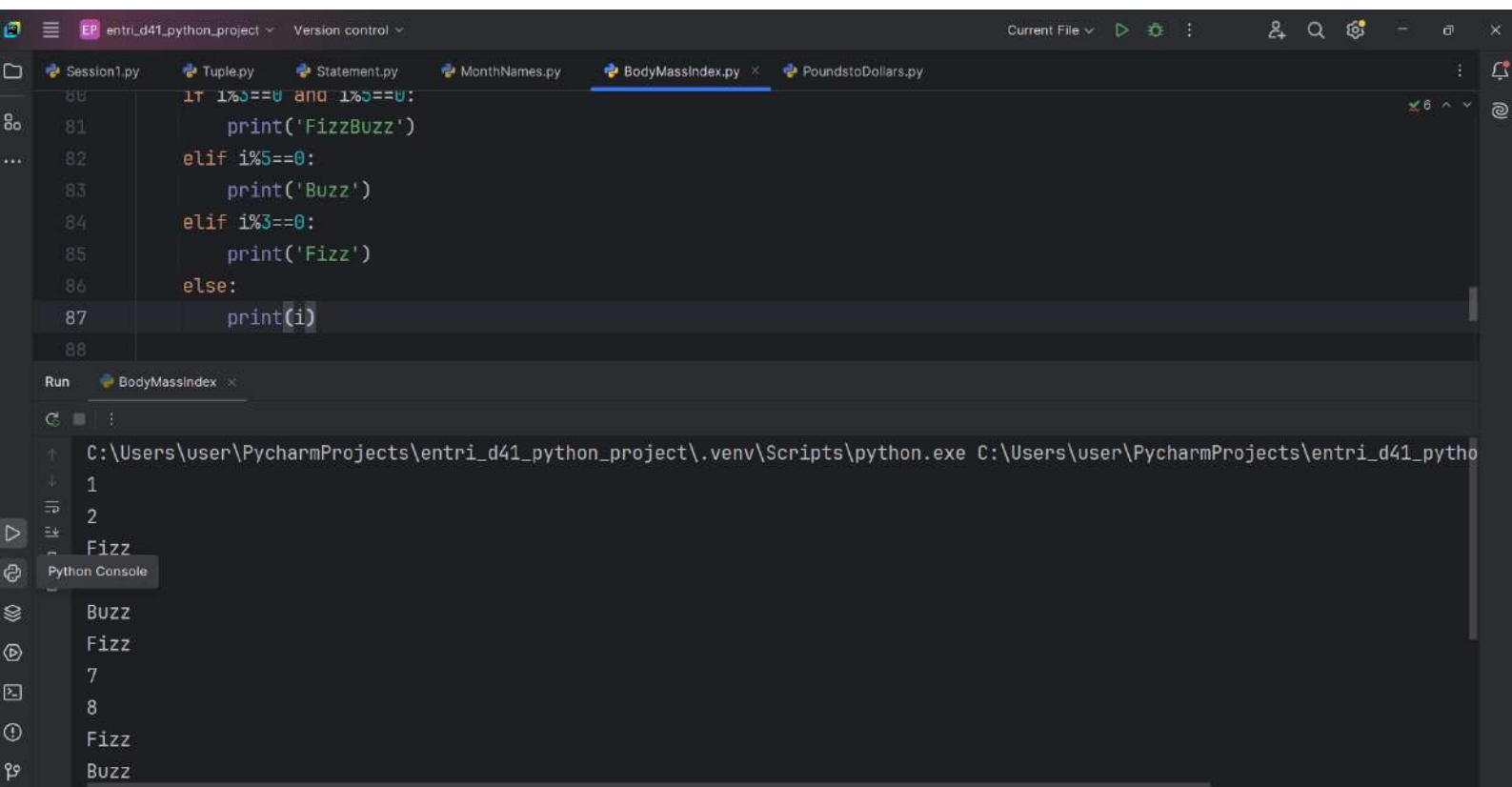
The screenshot shows a code editor with a dark theme. The top bar displays the project name 'entri_d41_python_project' and 'Version control'. Below the top bar, several file tabs are open: 'Session1.py', 'Tuple.py', 'Statement.py', 'MonthNames.py', 'BodyMassIndex.py' (which is the active file), and 'PoundstoDollars.py'. The main editor area shows the following Python code:

```
64 print()
65
66 # 8 Write a program to print the inputted value as it is and break the loop if the value is 'done'.
67 # Example run of the program :hello there hello there :finished finished :done Done
68
69 while True:
70     x=input('Enter a value or(done to exit)')
71     print(x)
72     if x.lower()=='done':
73         break
74
```

At the bottom of the editor, there is a 'Run' panel. It shows the output of the program execution for the 'BodyMassIndex' file. The output is as follows:

```
Multiples of the number 34 are:
34 68 102 136 170 204 238 272 306 340
Enter a value or(done to exit)hey
hey
Enter a value or(done to exit)hello
hello
Enter a value or(done to exit)Done
Done
```

```
entr_d41_python_project Version control Current File
Session1.py Tuple.py Statement.py MonthNames.py BodyMassIndex.py x PoundstoDollars.py
74
75
76 # 9 Write a program that prints the numbers from 1 to 10. But for multiples
77 # of three print "Fizz" instead of the number and for the multiple of five print
78 # "Buzz". For numbers which are multiples of both three and five print "FizzBuzz"
79 for i in range(1,11):
80     if i%3==0 and i%5==0:
81         print('FizzBuzz')
82     elif i%5==0:
83         print('Buzz')
84     elif i%3==0:
85         print('Fizz')
86     else:
87         print(i)
88
```



entri_d41_python_project

Version control

Current File

Session1.py

Tuple.py

Statement.py

MonthNames.py

BodyMassIndex.py

PoundstoDollars.py

```
93 # 2 1
94 # 1
95 for i in range(5,0,-1):
96     for j in range(i,0,-1):
97         print(j,end=" ")
98     print()
99
100
101
```

Run

BodyMassIndex

8
Fizz
Buzz
5 4 3 2 1
4 3 2 1
3 2 1
2 1
1
Process finished with exit code 0

entri_d41_python_project > BodyMassIndex.py 99.1 CRLF UTF-8 4 spaces Python 3.13 (entri_d41_python_project)