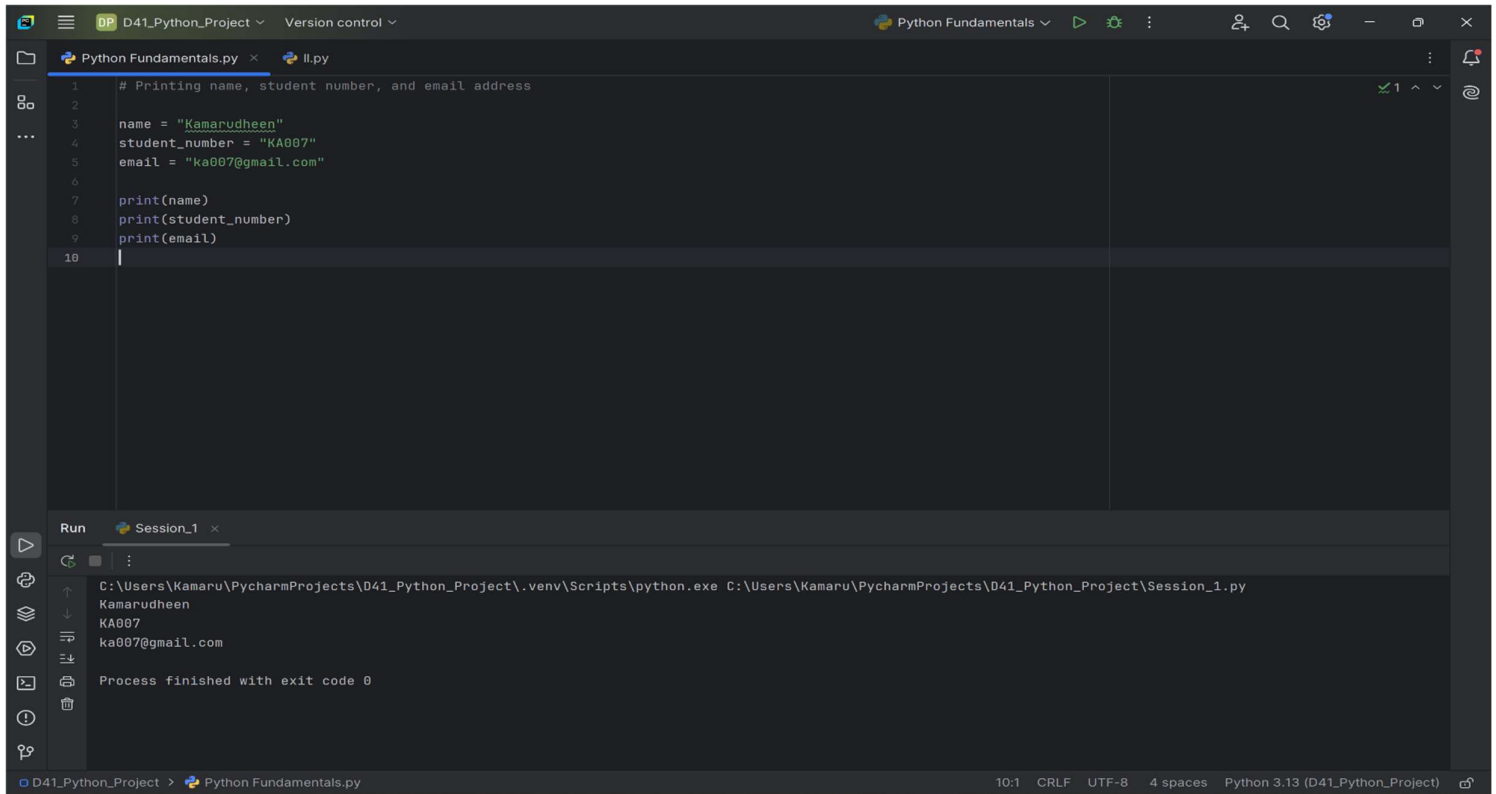


## 1 - PRINTED NAME STUDENT NUMBER AND EMAIL ADDRESS



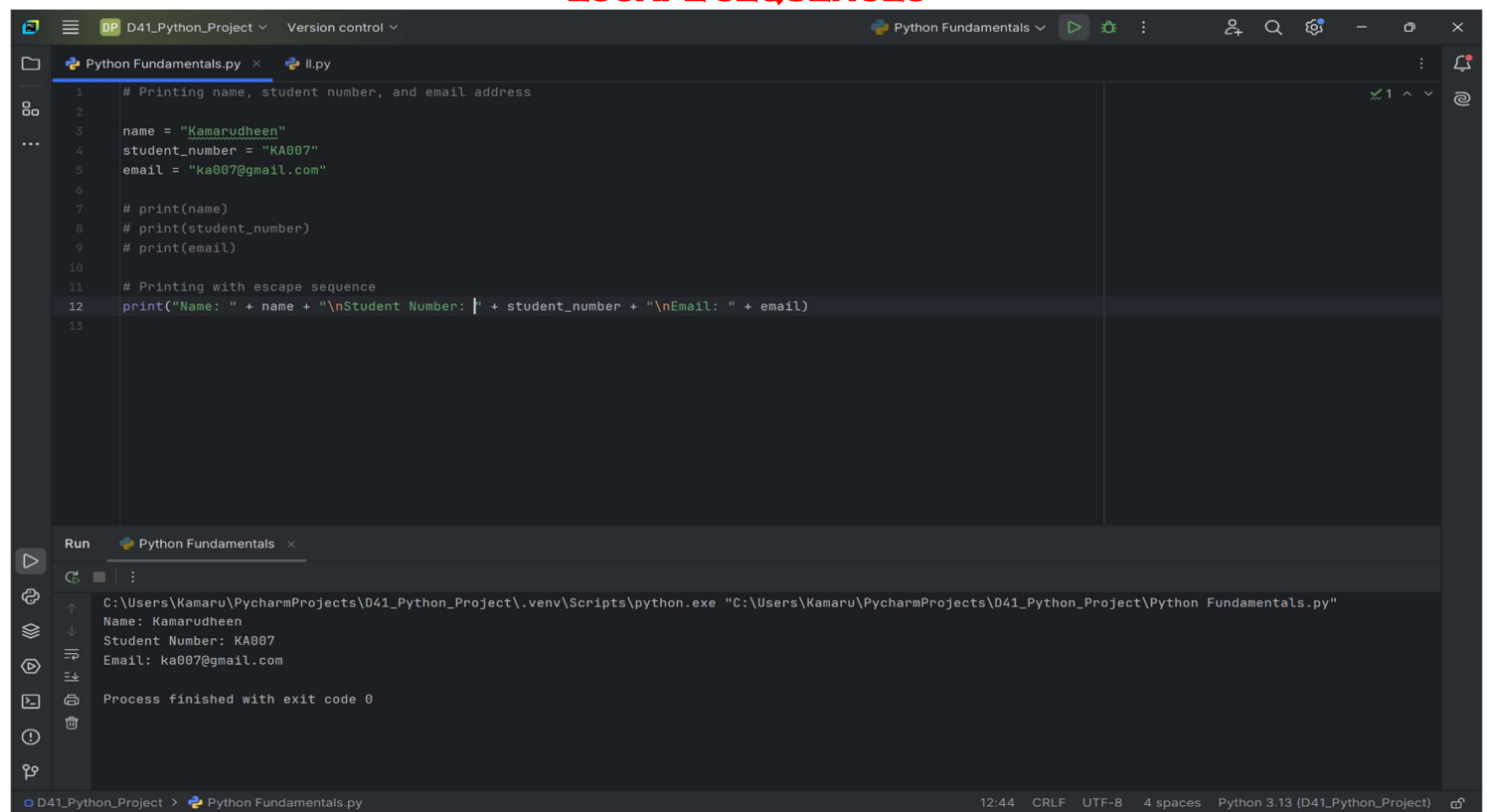
The screenshot shows the PyCharm IDE with a Python script named `Python Fundamentals.py`. The script defines variables for name, student number, and email, and prints them. The Run window shows the output of the script.

```
1 # Printing name, student number, and email address
2
3 name = "Kamarudheen"
4 student_number = "KA007"
5 email = "ka007@gmail.com"
6
7 print(name)
8 print(student_number)
9 print(email)
10
```

Run Session\_1

```
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Session_1.py
Kamarudheen
KA007
ka007@gmail.com
Process finished with exit code 0
```

## 2 - PRINTED NAME STUDENT NUMBER AND EMAIL ADDRESS USING ESCAPE SEQUENCES



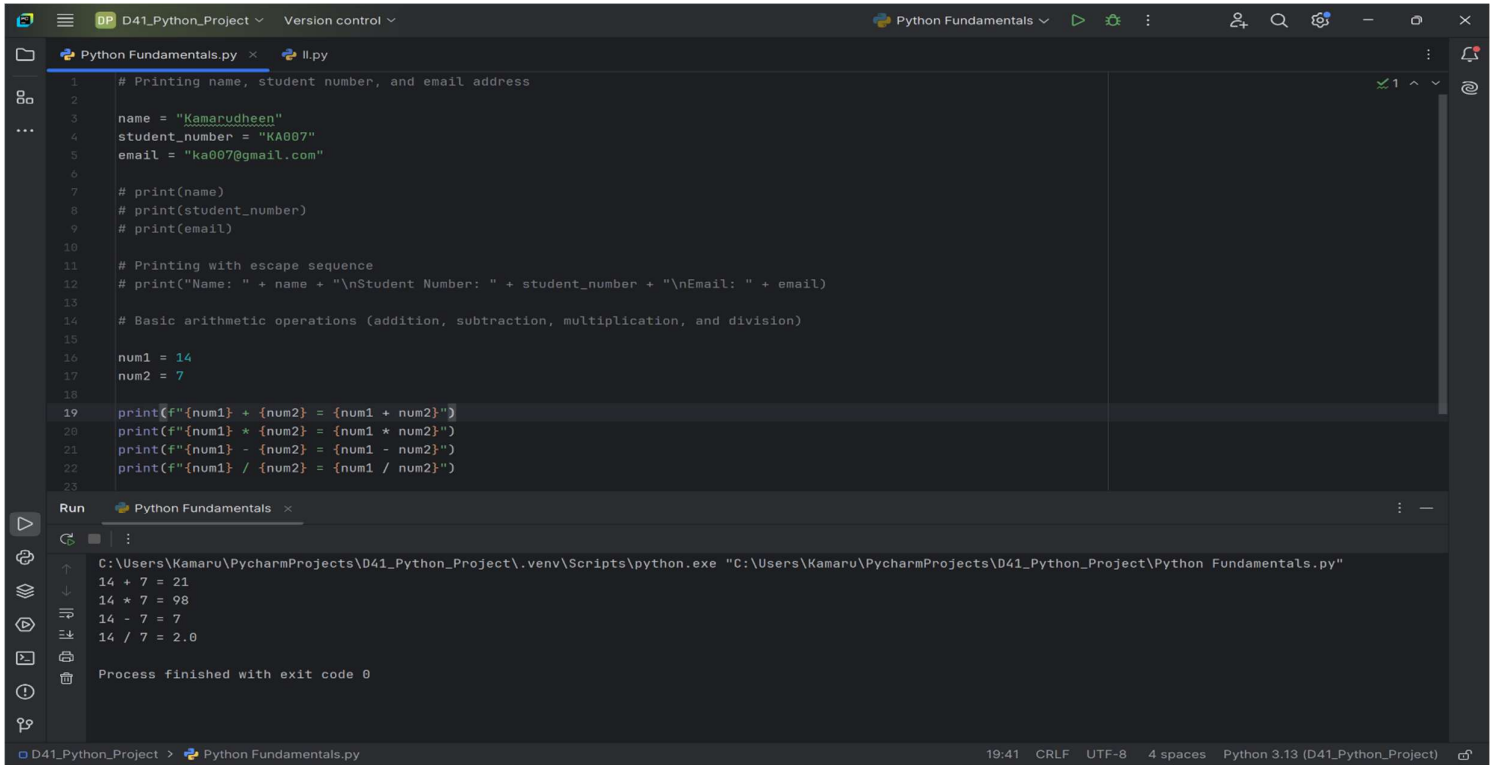
The screenshot shows the PyCharm IDE with a Python script named `Python Fundamentals.py`. The script defines variables for name, student number, and email, and prints them using escape sequences. The Run window shows the output of the script.

```
1 # Printing name, student number, and email address
2
3 name = "Kamarudheen"
4 student_number = "KA007"
5 email = "ka007@gmail.com"
6
7 # print(name)
8 # print(student_number)
9 # print(email)
10
11 # Printing with escape sequence
12 print("Name: " + name + "\nStudent Number: " + student_number + "\nEmail: " + email)
13
```

Run Python Fundamentals

```
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"
Name: Kamarudheen
Student Number: KA007
Email: ka007@gmail.com
Process finished with exit code 0
```

### 3- PRINTED PYTHON CODE WITH BASIC ARITHMETIC EQUATIONS



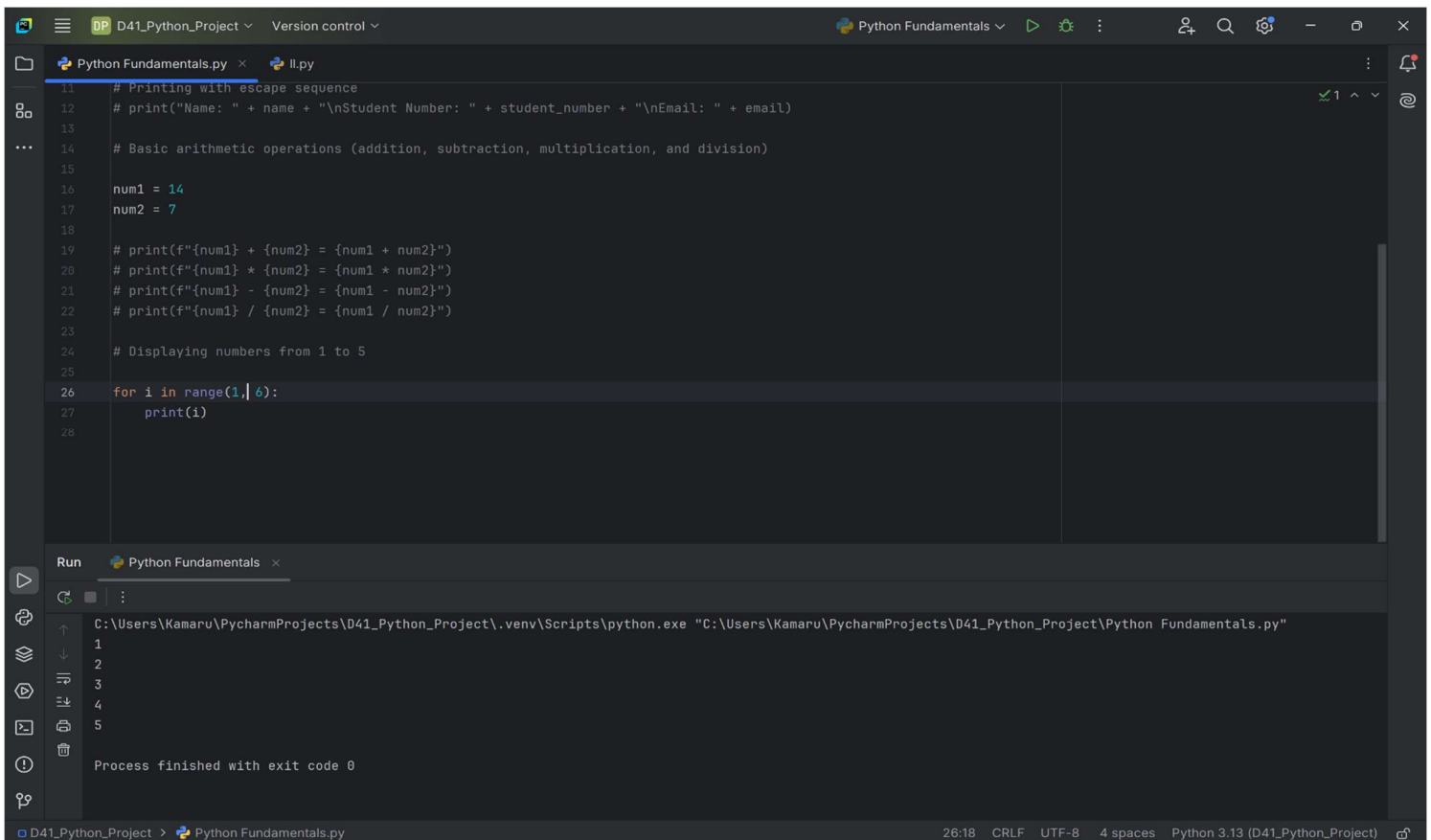
The screenshot shows a PyCharm IDE window titled 'D41\_Python\_Project'. The editor displays a Python file named 'Python Fundamentals.py' with the following code:

```
1 # Printing name, student number, and email address
2
3 name = "Kamarudheen"
4 student_number = "KA007"
5 email = "ka007@gmail.com"
6
7 # print(name)
8 # print(student_number)
9 # print(email)
10
11 # Printing with escape sequence
12 # print("Name: " + name + "\nStudent Number: " + student_number + "\nEmail: " + email)
13
14 # Basic arithmetic operations (addition, subtraction, multiplication, and division)
15
16 num1 = 14
17 num2 = 7
18
19 print(f"{num1} + {num2} = {num1 + num2}")
20 print(f"{num1} * {num2} = {num1 * num2}")
21 print(f"{num1} - {num2} = {num1 - num2}")
22 print(f"{num1} / {num2} = {num1 / num2}")
23
```

The Run console at the bottom shows the output of the code:

```
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"
14 + 7 = 21
14 * 7 = 98
14 - 7 = 7
14 / 7 = 2.0
Process finished with exit code 0
```

### 4- PRINTED PYTHON CODE THAT DISPLAYES NUMBER FROM 1 TO 5 AS STEPS



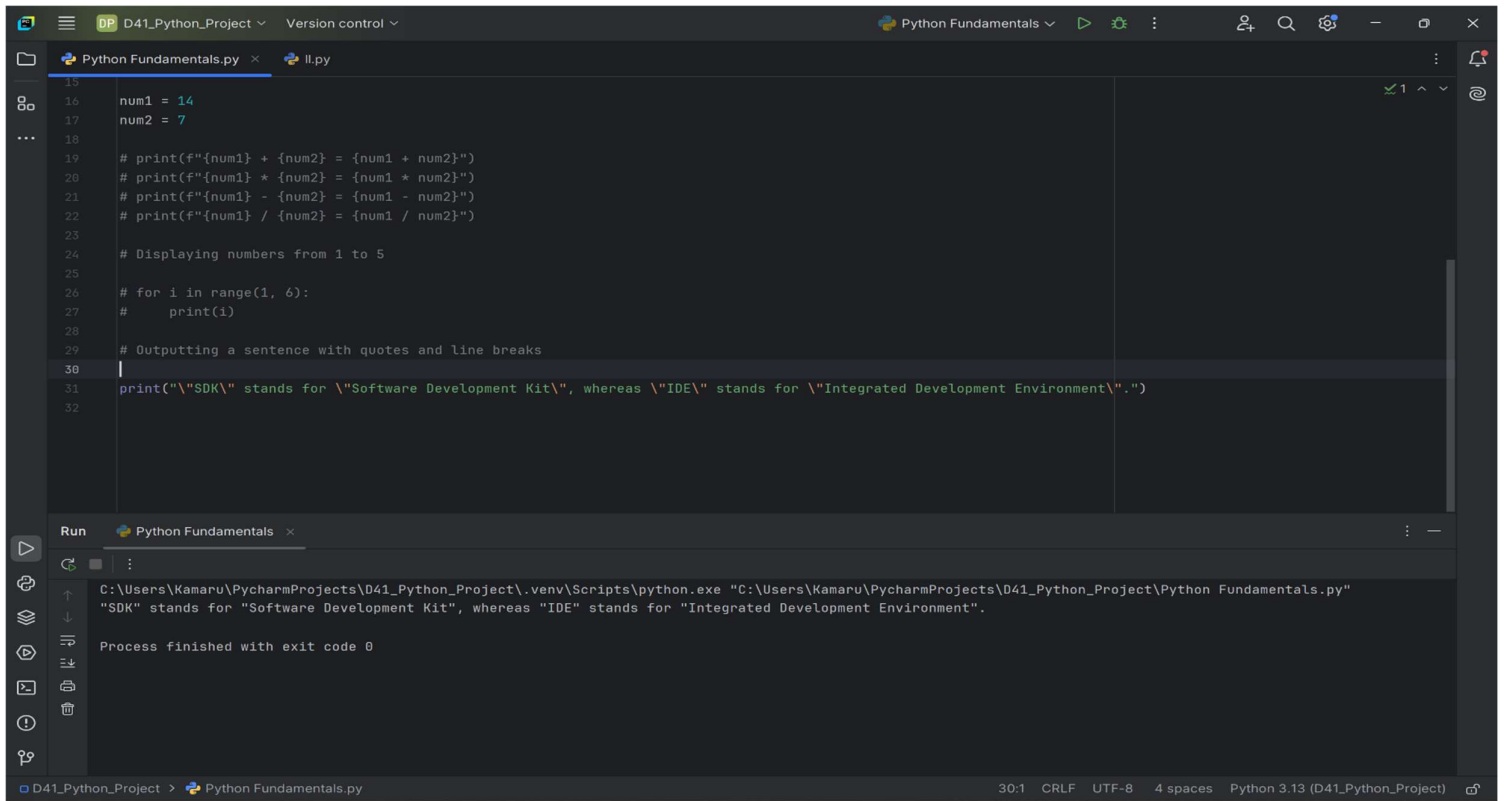
The screenshot shows the same PyCharm IDE window. The editor displays the same Python file, but with additional code added to the end:

```
24 # Displaying numbers from 1 to 5
25
26 for i in range(1, 6):
27     print(i)
28
```

The Run console at the bottom shows the output of the code:

```
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"
1
2
3
4
5
Process finished with exit code 0
```

## 5 – PRINTED PYTHON CODE THAT OUTPUTS SENTENCES TO THE SCREEN (AS MENTIONED IN QUESTION)



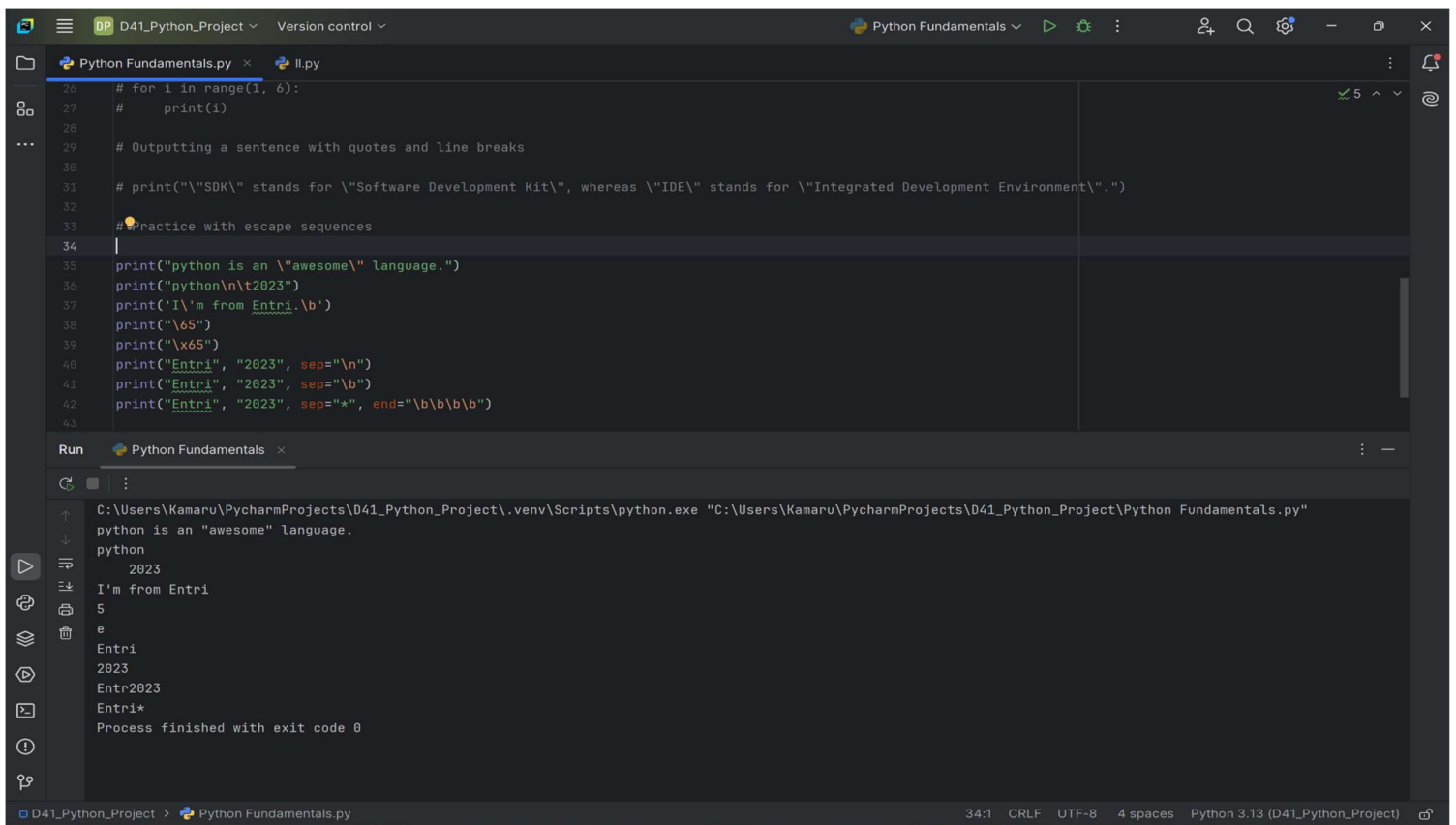
The screenshot shows a PyCharm IDE window titled "D41\_Python\_Project". The editor displays a Python file named "Python Fundamentals.py" with the following code:

```
15
16 num1 = 14
17 num2 = 7
18
19 # print(f"{num1} + {num2} = {num1 + num2}")
20 # print(f"{num1} * {num2} = {num1 * num2}")
21 # print(f"{num1} - {num2} = {num1 - num2}")
22 # print(f"{num1} / {num2} = {num1 / num2}")
23
24 # Displaying numbers from 1 to 5
25
26 # for i in range(1, 6):
27 #     print(i)
28
29 # Outputting a sentence with quotes and line breaks
30
31 print("\nSDK\" stands for \"Software Development Kit\", whereas \"IDE\" stands for \"Integrated Development Environment\".")
32
```

The Run console shows the output of the code:

```
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"
"SDK" stands for "Software Development Kit", whereas "IDE" stands for "Integrated Development Environment".
Process finished with exit code 0
```

## 6 – PRINTED AS PER THE QUESTION



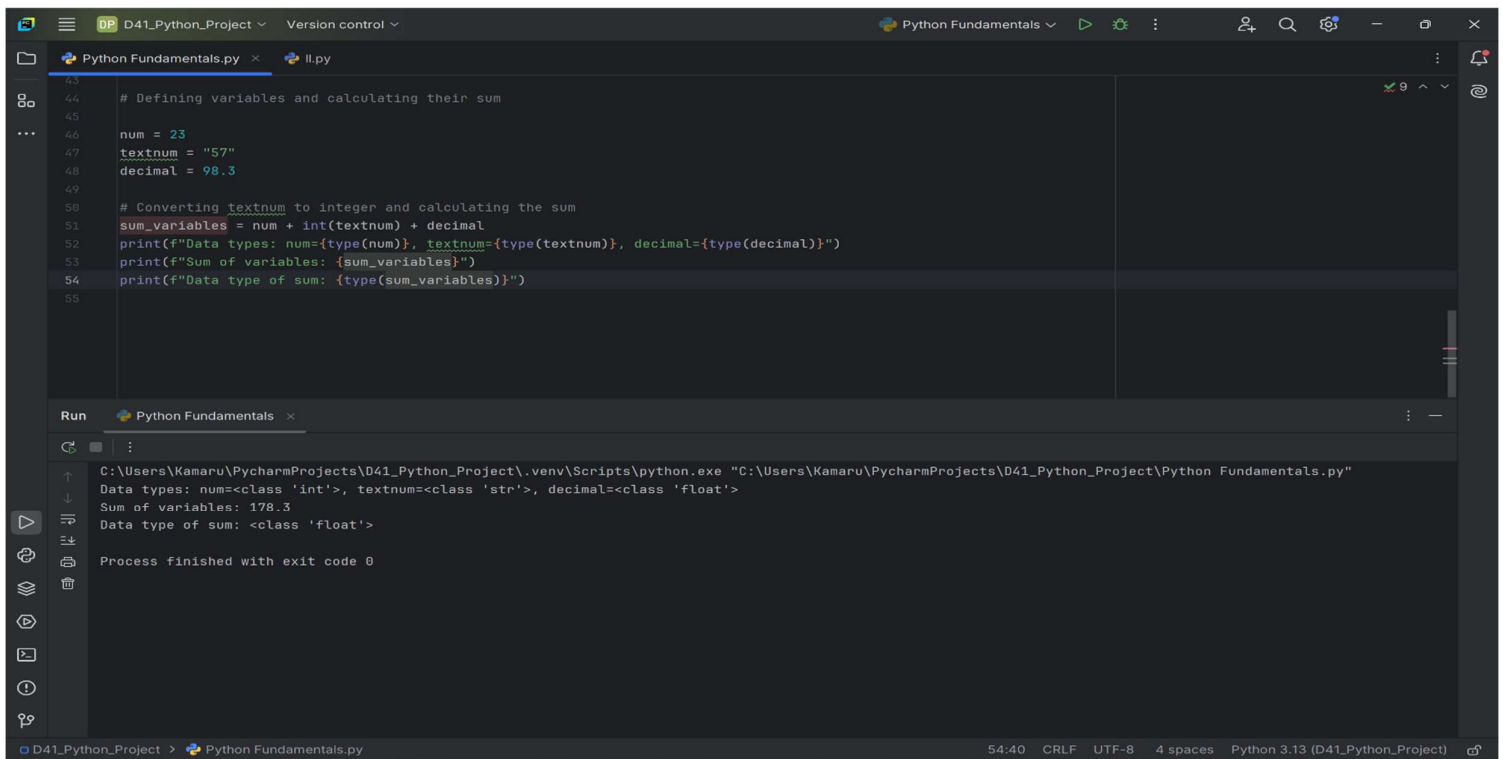
The screenshot shows a PyCharm IDE window titled "D41\_Python\_Project". The editor displays a Python file named "Python Fundamentals.py" with the following code:

```
26 # for i in range(1, 6):
27 #     print(i)
28
29 # Outputting a sentence with quotes and line breaks
30
31 # print("\nSDK\" stands for \"Software Development Kit\", whereas \"IDE\" stands for \"Integrated Development Environment\".")
32
33 # Practice with escape sequences
34
35 print("python is an \"awesome\" language.")
36 print("python\n\t2023")
37 print('I\'m from Entri.\b')
38 print("\65")
39 print("\x65")
40 print("Entri", "2023", sep="\n")
41 print("Entri", "2023", sep="\b")
42 print("Entri", "2023", sep="*", end="\b\b\b\b")
43
```

The Run console shows the output of the code:

```
C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"
python is an "awesome" language.
python
  2023
I'm from Entri
5
e
Entri
2023
Entri2023
Entri*
Process finished with exit code 0
```

## 7 – PRINTED TYPES OF VARIABLES AS PER QUESTION



The screenshot shows the PyCharm IDE with a Python file named `Python Fundamentals.py`. The code defines three variables: `num` (integer), `textnum` (string), and `decimal` (float). It then calculates the sum of these variables and prints their types and the sum. The output window shows the execution results.

```
44 # Defining variables and calculating their sum
45
46 num = 23
47 textnum = "57"
48 decimal = 98.3
49
50 # Converting textnum to integer and calculating the sum
51 sum_variables = num + int(textnum) + decimal
52 print(f>Data types: num={type(num)}, textnum={type(textnum)}, decimal={type(decimal)}")
53 print(f>Sum of variables: {sum_variables}>)
54 print(f>Data type of sum: {type(sum_variables)}>)
55
```

Run Python Fundamentals

C:\Users\Kamaru\PycharmProjects\D41\_Python\_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41\_Python\_Project\Python Fundamentals.py"

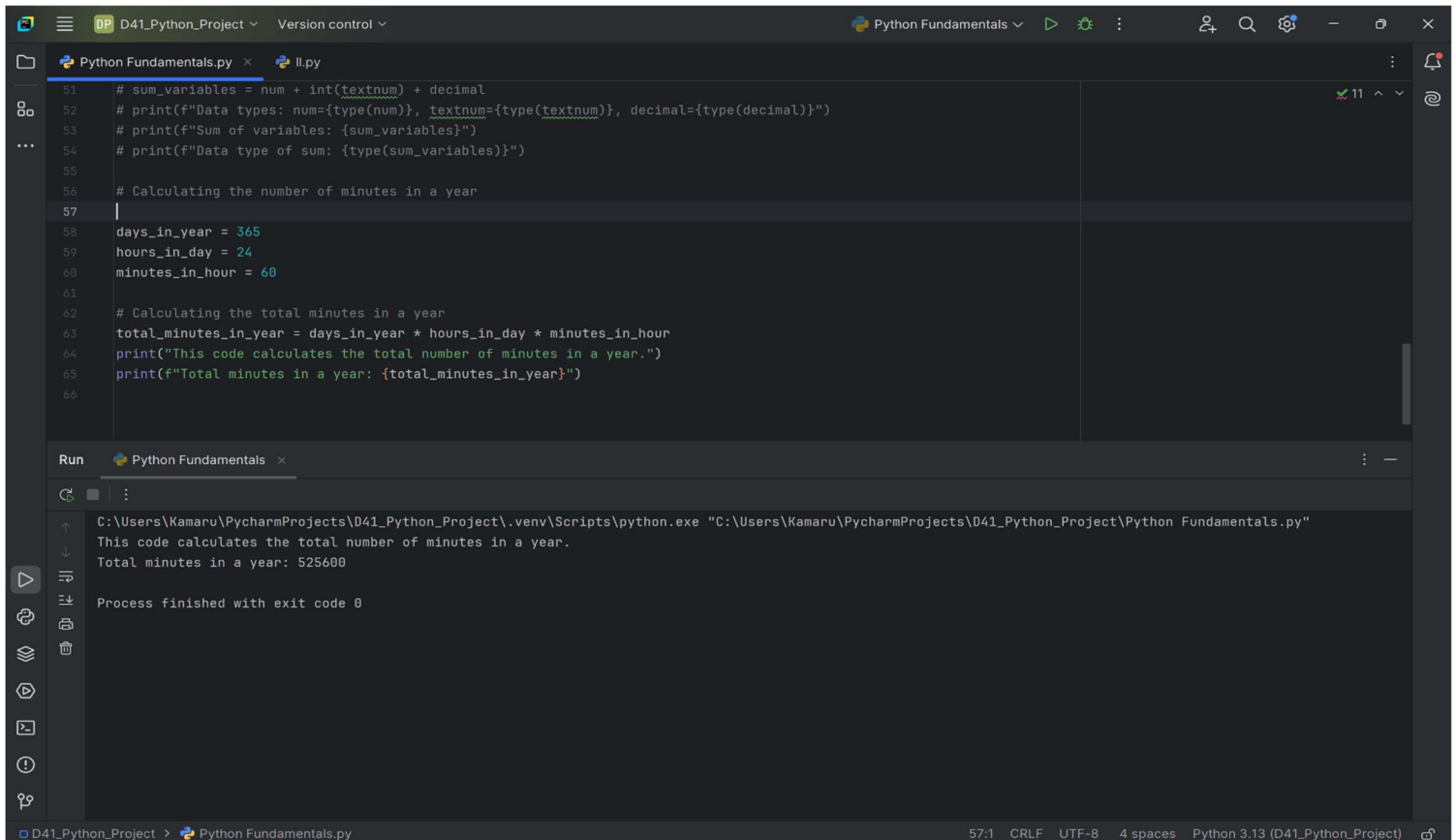
Data types: num=<class 'int'>, textnum=<class 'str'>, decimal=<class 'float'>

Sum of variables: 178.3

Data type of sum: <class 'float'>

Process finished with exit code 0

## 8 – CALCULATED NUMBER OF MINUTES IN A YEAR USING VARIABLE FOR EACH UNIT OF TIME AS PER QUESTION



The screenshot shows the PyCharm IDE with a Python file named `Python Fundamentals.py`. The code calculates the total number of minutes in a year by multiplying the number of days in a year, hours in a day, and minutes in an hour. It then prints the result. The output window shows the execution results.

```
51 # sum_variables = num + int(textnum) + decimal
52 # print(f>Data types: num={type(num)}, textnum={type(textnum)}, decimal={type(decimal)}>)
53 # print(f>Sum of variables: {sum_variables}>)
54 # print(f>Data type of sum: {type(sum_variables)}>)
55
56 # Calculating the number of minutes in a year
57
58 days_in_year = 365
59 hours_in_day = 24
60 minutes_in_hour = 60
61
62 # Calculating the total minutes in a year
63 total_minutes_in_year = days_in_year * hours_in_day * minutes_in_hour
64 print(f>This code calculates the total number of minutes in a year.>)
65 print(f>Total minutes in a year: {total_minutes_in_year}>)
66
```

Run Python Fundamentals

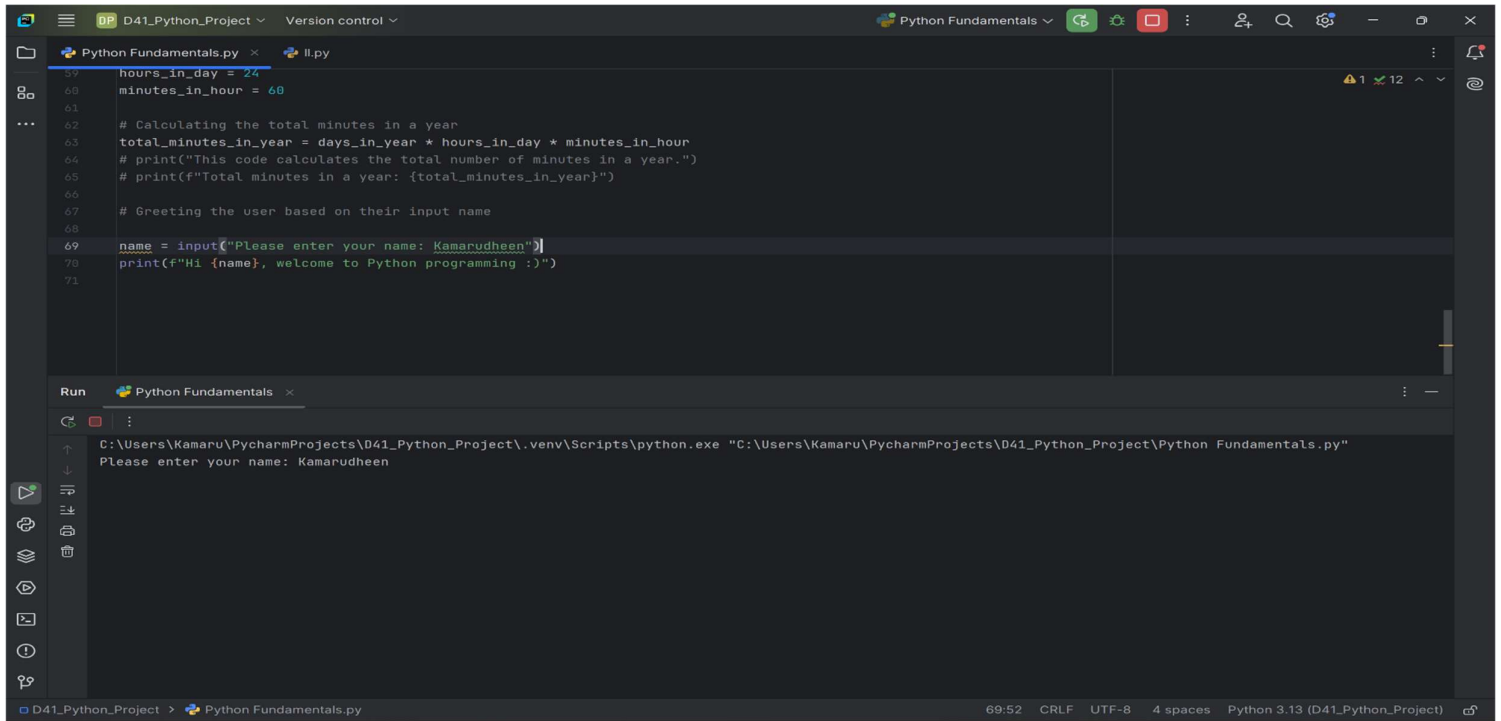
C:\Users\Kamaru\PycharmProjects\D41\_Python\_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41\_Python\_Project\Python Fundamentals.py"

This code calculates the total number of minutes in a year.

Total minutes in a year: 525600

Process finished with exit code 0

## 9 – PRINTED PYTHON CODE AS PER QUESTION

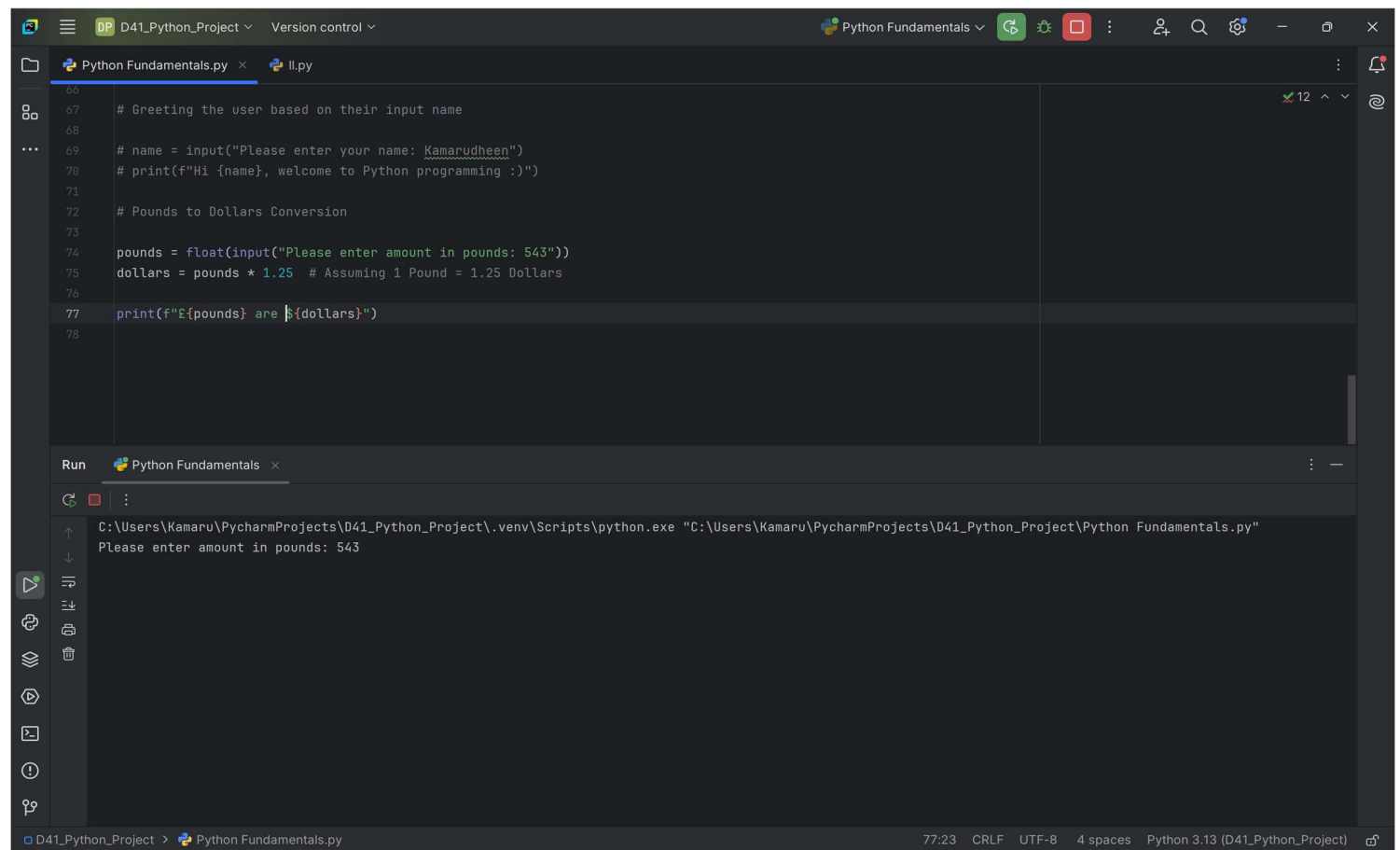


The screenshot shows the PyCharm IDE with a file named `Python Fundamentals.py`. The code is as follows:

```
59 hours_in_day = 24
60 minutes_in_hour = 60
61
62 # Calculating the total minutes in a year
63 total_minutes_in_year = days_in_year * hours_in_day * minutes_in_hour
64 # print("This code calculates the total number of minutes in a year.")
65 # print(f"Total minutes in a year: {total_minutes_in_year}")
66
67 # Greeting the user based on their input name
68
69 name = input("Please enter your name: Kamarudheen")
70 print(f"Hi {name}, welcome to Python programming :)")
71
```

The Run console shows the command: `C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"` and the output: `Please enter your name: Kamarudheen`.

## 10 – POUND TO DOLLAR



The screenshot shows the PyCharm IDE with a file named `Python Fundamentals.py`. The code is as follows:

```
66
67 # Greeting the user based on their input name
68
69 # name = input("Please enter your name: Kamarudheen")
70 # print(f"Hi {name}, welcome to Python programming :)")
71
72 # Pounds to Dollars Conversion
73
74 pounds = float(input("Please enter amount in pounds: 543"))
75 dollars = pounds * 1.25 # Assuming 1 Pound = 1.25 Dollars
76
77 print(f"{pounds} are ${dollars}")
78
```

The Run console shows the command: `C:\Users\Kamaru\PycharmProjects\D41_Python_Project\.venv\Scripts\python.exe "C:\Users\Kamaru\PycharmProjects\D41_Python_Project\Python Fundamentals.py"` and the output: `Please enter amount in pounds: 543`.