

Python_Assignment_1

Exercise 1

Write Python code that prints your name, student number and email address.

```
2 print("Ashish")
3 print("D41")
4 print("ashish@example.com")
5 |
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts\python.exe
Ashish
D41
ashish@example.com
```

Exercise 2

Write Python code that prints your name, student number and email address using escape sequences.

```
6 print("Ashish\nD41\nashish@example.com")
7 |
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts\python.exe
Ashish
D41
ashish@example.com
```

Exercise 3

Write Python code that add, subtract, multiply and divide the two numbers. You can use the two numbers 14 and 7.

```
8      # Exercise 3
9      num1 = 14
10     num2 = 7
11     print(num1, "+", num2, "=", num1 + num2)
12     print(num1, "-", num2, "=", num1 - num2)
13     print(num1, "*", num2, "=", num1 * num2)
14     print(num1, "/", num2, "=", num1 / num2)
15
```

C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Script

14 + 7 = 21

14 - 7 = 7

14 * 7 = 98

14 / 7 = 2.0

Exercise 4

Write Python code that displays the numbers from 1 to 5 as steps.

```
16     # Exercise 4
17     print(1)
18     print(2)
19     print(3)
20     print(4)
21     print(5)
22     |
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts\python.exe
1
2
3
4
5
```

Exercise 5

```
23     # Exercise 5
24     print("\"SDK\" stands for \"Software Development Kit\", \"
25         \"\nwhereas \"IDE\" stands for \"Integrated \"
26     \"Development Environment\".\")
27     |
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts\python.exe
"SDK" stands for "Software Development Kit",
whereas "IDE" stands for "Integrated Development Environment".

Process finished with exit code 0
```

Exercise 6

Practice and check the output

```
29 # Exercise 6
30 print("python is an \"awesome\" language.")
31 print("python\n\t2023")
32 print('I\'m from Entri.\b')
33 print("\65")
34 print("\x65")
35 print("Entri", "2023", sep="\n")
36 print("Entri", "2023", sep="\b")
37 print("Entri", "2023", sep="*", end="\b\b\b\b")
38
39
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts\python.exe
python is an "awesome" language.
python
    2023
I'm from Entri
5
e|
Entri
2023
Entr2023
Entri*
Process finished with exit code 0
```

Exercise 7

Define the variables below. Print the types of each variable. What is the sum of your variables? (Hint: use a type conversion function.) What datatype is the sum?

num=23

textnum="57"

decimal=98.3

```
39 # Exercise 7
40 num = 23
41 textnum = "57"
42 decimal = 98.3
43
44 print("Type of num:", type(num))
45 print("Type of textnum:", type(textnum))
46 print("Type of decimal:", type(decimal))
47
48 # Convert
49 total = num + int(textnum) + decimal
50 print("Sum of variables:", total)
51 print("Type of the sum:", type(total))
```

C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Script

Type of num: <class 'int'>

Type of textnum: <class 'str'>

Type of decimal: <class 'float'>

Sum of variables: 178.3

Type of the sum: <class 'float'>

Process finished with exit code 0

|

Exercise 8

calculate the number of minutes in a year using variables for each unit of time. print a statement that describes what your code does also. Create three variables to store no of days in a year, minute in a hour, hours in a day, then calculate the total minutes in a year and print the values (hint) total number of minutes in an year = No. of days in an year * Hours in a day * Minutes in an hour

```
53 # Exercise 8
54 days_in_year = 365
55 hours_in_day = 24
56 minutes_in_hour = 60
57
58 # Calculate total minutes in a year
59 total_minutes = days_in_year * hours_in_day * minutes_in_hour
60 print("This program calculates the number of minutes in a year.")
61 print("The total number of minutes in a year is:", total_minutes)
62
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Script
```


```
This program calculates the number of minutes in a year.
```

```
The total number of minutes in a year is: 525600
```

```
Process finished with exit code 0
```

Exercise 9

Write Python code that asks the user to enter his/her name and then output/prints his/her name with a greeting.

```
63 # Exercise 9
64 name = input("Please enter your name: ")
65 print("Hi", name + ", welcome to Python programming :)")
66 
67
68
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts
Please enter your name: ashish
Hi ashish, welcome to Python programming :)

Process finished with exit code 0
```

Exercise 10

Name your file: PoundsToDollars.py

Write a program that asks the user to enter an amount in pounds (£) and the program calculates and converts an amount in dollar (\$)

```
68 # Exercise 10
69 pounds = float(input("Please enter the amount in pounds: "))
70 conversion_rate = 1.35
71 dollars = pounds * conversion_rate
72 print(f"£{pounds} equals ${dollars:.2f}")
73
74
```

```
C:\Users\ashis\PycharmProjects\PythonProject3\.venv\Scripts
Please enter the amount in pounds: 5060
£5060.0 equals $6831.00

Process finished with exit code 0
```

