



ASSIGNMENT

Python

Fundamentals

Exercise 1 Write Python code that prints your name, student number and email address. An example runs of the program: Bob ST1001 bob@gmail.com

```
78     name = "Rashid VM"
79     student_number = "DSML_41"
80     email_address = "rashbsf@gmail.com"
81
82     print(name)
83     print(student_number)
84     print(email_address)
85
86     # Exercise 2
```

Run 1_Python_Fundamentals x



```
C:\Users\pc\PycharmProjects\Assignments_python_pro
Rashid VM
DSML_41
rashbsf@gmail.com

Process finished with exit code 0
```

```
92 name = "Rashid VM"
93 student_number = "DSML_41"
94 email_address = "rashbsf@gmail.com"
95 print("Rashid VM \nDSML_41 \nrashbsf@gmail.com")
```

Run 1_Python_Fundamentals x



C:\Users\pc\PycharmProjects\Assignments_python_pr

Rashid VM

DSML_41

rashbsf@gmail.com



Process finished with exit code 0

Exercise 2

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

An example runs of the program:

Bob

ST1001

bob@gmail.com

Exercise

3

Write Python code that add, subtract, multiply and divide the two numbers. You can use the two numbers 14 and 7. An example run of the program:

14 + 7 = 21

14 * 7 = 98

14 - 7 = 7

14 / 7 = 2

```
13 # Print the results in one line
14 print(f"{num1} + {num2} = {addition}\n{num1} - {num2} = {subtraction}\n"
15     f"{num1} * {num2} = {multiplication}\n{num1} / {num2} = {division}")
16 # what is f
```

1_Python_Fundamentals x



C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scripts\python.exe

14 + 7 = 21

14 - 7 = 7

14 * 7 = 98

14 / 7 = 2.0

Process finished with exit code 0

Exercise 4

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

An example runs of the program:

1
2
3
4
5

```
129     for i in range(1, 6):  
130         print(i)  
131
```

Run 1_Python_Fundamentals x




C:\Users\pc\PycharmProjects\Assignments_python_pro
1
2
3
4
5

Process finished with exit code 0

Author is licensed under

```
7  
8 print("\nSDK\n" stands for \n"Software Development Kit", "\n\n"  
9      \n"IDE\n" stands for \n"Integrated Development Environment\n".")  
0
```

 1_Python_Fundamentals x

C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scripts\python
"SDK" stands for "Software Development Kit"
"IDE" stands for "Integrated Development Environment".

Process finished with exit code 0

Exercise 5 Write Python code that outputs the following sentence (including the quotation marks and line break) to the screen: An example runs of the program: "SDK" stands for "Software Development Kit", whereas "IDE" stands for "Integrated Development Environment".

Exercise 6

Practice and check the output

```
print("python is an  
\"awesome\" language.")  
print("python\n\t2023")  
print('I\'m from Entr\u00ed.\b')  
print("\65")  
print("\x65")  
print("Entr\u00ed", "2023",  
sep="\n")  
print("Entr\u00ed", "2023",  
sep="\b")  
print("Entr\u00ed", "2023",  
sep="*", end="\b\b\b\b")
```

```
144 print("python\n\t2023")  
145 print('I\'m from Entr\u00ed.\b')  
146 print("\65")  
147 print("\x65")  
148 print("Entr\u00ed", "2023", sep="\n")
```

run 1_Python_Fundamentals ×



```
C:\Users\pc\PycharmProjects\Assignments_python_
python is an "awesome" language.
python
    2023
I'm from Entr\u00ed
5
e
Entr\u00ed
2023
Entr2023
Entr\u00ed*
Process finished with exit code 0
```

```
print(type(num))
print(type(textnum))
print(type(decimal))
```

1_Python_Fundamentals x

```
:
```

C:\Users\pc\PycharmProjects\Assignm

<class 'int'>

<class 'str'>

<class 'float'>

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

```
165 sum_of_variables = num + int(textnum) + decimal
166 print(sum_of_variables)
```

1_Python_Fundamentals x

```
:
```

C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scr

178.3

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

```
74 # Define the variables
75 days_in_year = 365
76 minutes_in_hour = 60
77 hours_in_day = 24
78
79 # Calculate the total minutes in a year
80 total_minutes_in_year = days_in_year * hours_in_day * minutes_in_hour
81
82 # Print the result
83 print(total_minutes_in_year)
```

n 1_Python_Fundamentals x

C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\Scripts\python.exe
525600

Process finished with exit code 0

```
# Print a greeting
print(f"Hi {name}, welcome to Python progr
```

1_Python_Fundamentals x

```
:
```

\Users\pc\PycharmProjects\Assignments_pythor

ease enter your name: *Rashid VM*

Rashid VM, welcome to Python programming :)

rocess 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.

An example runs of the program:

Please enter you name: Tony

Hi Tony, welcome to Python programming :)

```
98 name = input("Please enter your name: ")
99
00 # Print a greeting
01 print(f"Hi {name}, welcome to Python programming :)")
02
03
```

n 1_Python_Fundamentals x

⏏ | :

C:\Users\pc\PycharmProjects\Assignments_python_project\.ve

Please enter your name: |

```
# PoundsToDollars.py

# Define the conversion rate from pounds to dollars
conversion_rate = 1.30

# Ask the user to enter an amount in pounds
pounds = float(input("Please enter amount in pounds: £"))

# Convert pounds to dollars
```

1_Python_Fundamentals ×

C:\Users\pc\PycharmProjects\Assignments_python_project\.venv\

Please enter amount in pounds: £100

£100.0 are \$130.00

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 (\$)

An example runs of the program:

Please enter amount in pounds: XXX

£ XXX are \$ XXX