## **PYTHON FUNDAMENTALS**

```
# Write Python code that prints your name, student number and email address.
print("Bob")
print("ST1001")
print("bob@gmail.com")
 Bob
 ST1001
 bob@gmail.com
 Process finished with exit code 0
# Write Python code that prints your name, student number and email address using escape
print("Bob\nST1001\nbob@gmail.com")
 Bob
 ST1001
 bob@gmail.com
 Process finished with exit code 0
# Write Python code that add, subtract, multiply and divide the two numbers. You can use
the two numbers 14 and 7.
num1 = 14
num2 = 7
# ADDITION
print(f"{num1} + {num2} = {num1 + num2}")
# SUBSTRACTION
print(f"{num1} - {num2} = {num1 - num2}")
```

```
# MULTIPLICATION
print(f"{num1} * {num2} = {num1 * num2}")
# DIVISION
print(f"{num1} / {num2} = {num1 / num2}")
 14 + 7 = 21
 14 - 7 = 7
 14 * 7 = 98
 14 / 7 = 2.0
 Process finished with exit code 0
# Write Python code that displays the numbers from 1 to 5 as steps.
print("""1\n2\n3\n4\n5""")
# or
for i in range(1, 6):
   print(i)
 2
 3
 Process finished with exit code 0
# Write Python code that outputs the following sentence (including the quotation marks
"SDK" stands for "Software Development Kit", whereas
"IDE" stands for "Integrated Development Environment".
print('"SDK" stands for "Software Development Kit", whereas\n"IDE" stands for "Integrated")
Development Environment".')
```

```
"SDK" stands for "Software Development Kit", whereas
 "IDE" stands for "Integrated Development Environment".
 Process finished with exit code 0
# Practice and check the output
print("python is an \"awesome\" language.")
python is an "awesome" language.
print("python\n\t2023")
 python
     2023
print('I\'m from Entri.\b')
 I'm from Entri
print("\65")
 5
print("\x65")
 е
print("Entri", "2023", sep="\n")
 Entri
 2023
```

```
print("Entri", "2023", sep="\b")
  Entr<sub>2023</sub>
print("Entri", "2023", sep="*", end="\b\b\b\b")
  Entri*
# Define the variables below. Print the types of each variable. What is the sum of your
# textnum="57"
num = 23
textnum = "57"
decimal = 98.3
print("Type of num:", type(num))
print("Type of textnum:", type(textnum))
print("Type of decimal:", type(decimal))
sum_of_variables = num + int(textnum) + decimal
print("Sum of variables:", sum_of_variables)
print("Type of sum:", type(sum_of_variables))
Type of num: <class 'int'>
Type of textnum: <class 'str'>
Type of decimal: <class 'float'>
Sum of variables: 178.3
Type of sum: <class 'float'>
Process finished with exit code 0
# calculate the number of minutes in a year using variables for each unit of time.
# 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
```

```
Minutes in an hour
days in year = 365
hours_in_day = 24
minutes_in_hour = 60
total_minutes = days_in_year * hours_in_day * minutes_in_hour
print("days_in_year = 365\nhours_in_day = 24\nminutes_in_hour = 60\nTotal number of
minutes in an year = No.of days in an year * Hours in a day * Minutes in an hour")
print(f"Total minutes in a year = {days_in_year} * {hours_in_day} * {minutes_in_hour} =
{total minutes}")
days_in_year = 365
hours_in_day = 24
minutes_in_hour = 60
Total number of minutes in an year = No.of days in an year * Hours in a day * Minutes in an hour
Total minutes in a year = 365 * 24 * 60 = 525600
Process finished with exit code 0
his/her name with a greeting.
# An example runs of the program:
# Hi Tony, welcome to Python programming :)
name = input("Enter your name: ")
print("Hi " + name + ", welcome to Python programming")
 Enter your name: Tony
 Hi Tony, welcome to Python programming
# Name your file: PoundsToDollars.py
# Write a program that asks the user to enter an amount in pounds (£) and the program
# An example runs of the program:
# Please enter amount in pounds: XXX£XXX are $XXX
```

```
print("Pounds To Dollars Conversion")
pounds = float(input("Please enter amount in pounds: "))
dollars = pounds * 1.25

print("£" + str(pounds) + " are $" + str(dollars))

Output
Pounds To Dollars Conversion
Please enter amount in pounds: 234
£234.0 are $292.5
```