Student Details

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Subject : Python Programming
Experiment : 1

Experiment – 1 Python Installation and Starting with Python

Aim

To understand Python installation and write basic Python programs using print statements, variables, and data types.

Program Code

1.

a) Print: Hello Everyone !!!

```python
print("Hello Everyone !!!")
```

b) Print:

```
Hello
World
```

```python
print("Hello")
print("World")
```

c) Print using newline character

```python
print("Hello\nWorld")
```

d) Print with quotes and date

```python
print(" 'Monal's date of birth is 08\\05\\1999' ")
```

2. Declare a string variable x and print its value

```
# Declaring a string variable
x = "Hello"

# Printing the value of x
print(x)
```

3. Take different data types and print values

```
# Different data types
integer_value = 10
float_value = 25.5
string_value = "Python Programming"
boolean_value = True

# Printing values
print("Integer Value:", integer_value)
print("Float Value:", float_value)
print("String Value:", string_value)
print("Boolean Value:", boolean_value)
```

4. Print full name by adding first name and last name

```
# Assigning first name and last name
a = "Monal"
b = "Ambwani"

# Printing full name
print("Full Name:", a + " " + b)
```

5. Print name with nickname in parenthesis

```
# Declaring variables
first_name = "George"
last_name = "Washington"
nickname = "Woody"

# Printing in required format
print(first_name + " (" + nickname + ") " + last_name)
```
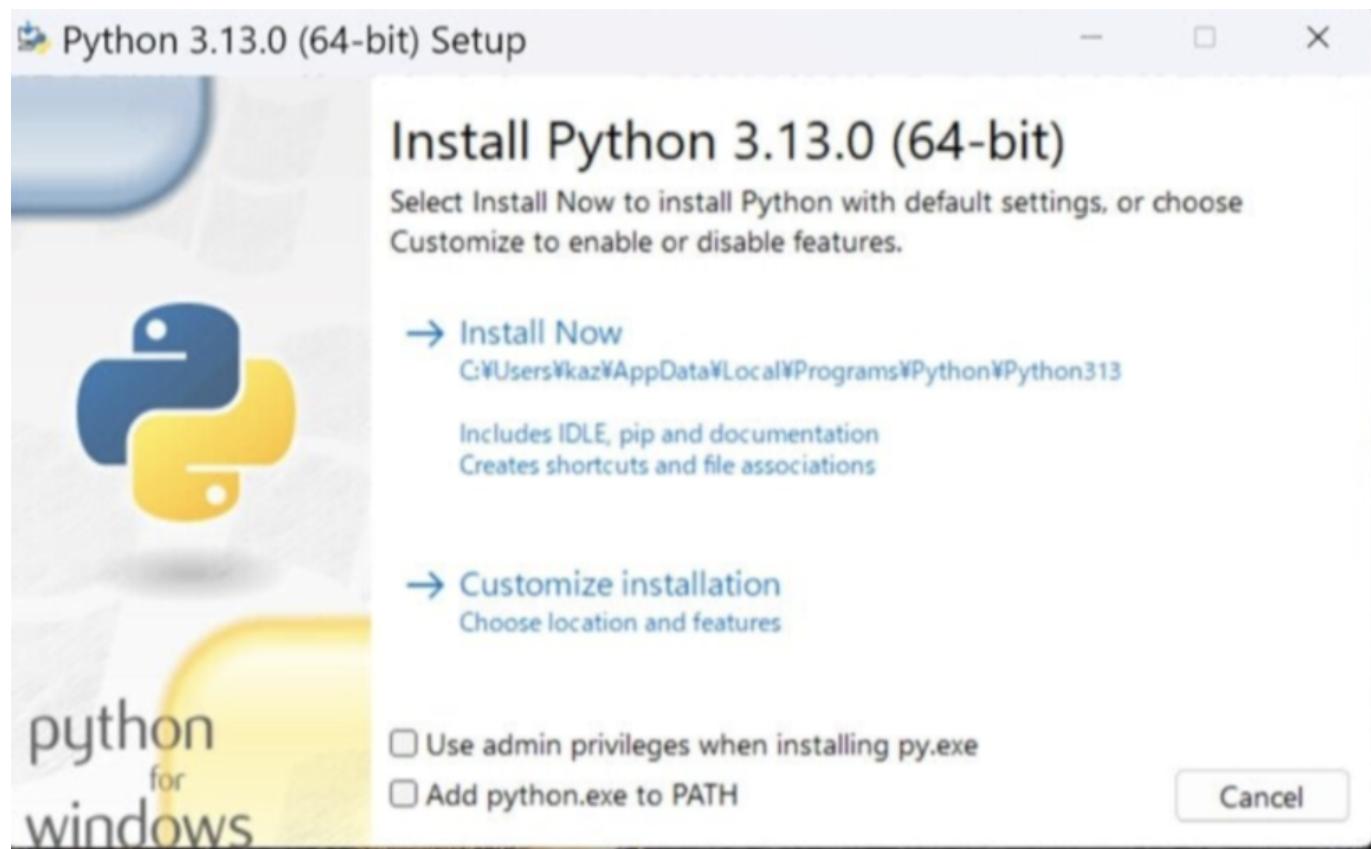
6. Print personal details in specified format

```python
# Declaring variables
name = "MONAL AMBWANI"
sap_id = "590022987"
dob = "08 Oct 2007"
address = "UPES\nBidholi Campus"
pincode = "248007"
programme = "BTech CSE"
semester = "2"

# Printing details
print("NAME :", name)
print("SAP ID :", sap_id)
print("DATE OF BIRTH :", dob)
print("ADDRESS :", address)
print("Pincode :", pincode)
print("Programme :", programme)
print("Semester :", semester)
```

Output

Installation

1. a)

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\strings.py"
Hello Everyone !!!
```

b)

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\strings.py"
Hello
World
```

c)

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\strings.py"
Hello
World
```

d)

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\strings.py"
 'Monal's date of birth is 08\10\2007'
```

2.

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\OUTPUTS"
Hello
```

3.

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\OUTPUTS"
Integer Value: 10
Float Value: 25.5
String Value: Python Programming
Boolean Value: True
```

4.

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\OUTPUTS"
Full Name: Monal Ambwani
```

5.

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\OUTP
George (Woody) Washington
```

6.

```
[Running] python -u "c:\Users\91789\OneDrive\Python\Experiment_2\OUTPUTS"
NAME : MONAL AMBWANI
SAP ID : 590022987
DATE OF BIRTH : 08 Oct 2007
ADDRESS : UPES
Bidholi Campus
Pincode : 248007
Programme : BTech CSE
Semester : 2
```

Observations

1. Python programs are executed line by line using the Python interpreter.

2. Variables in Python can store different types of data without declaring their type.

3. The print() function is used to display text and variable values on the output screen.

4. String values can be concatenated using the + operator.

5. Escape characters like \n help in formatting the output.

6. Python syntax is simple and easy to understand.

7. Errors are displayed clearly, making debugging easier.

Result

1.All the given Python programs were written correctly.

2. The programs were executed without any errors.

3. The output obtained was as expected.

4. The objectives of the experiment were successfully achieved.