

Python Programming – Day 2

This document contains practical Python coding exercises designed to help you understand basic concepts such as variables, data types, operators, and control structures. Each section includes commented examples and explanations.

1 Program to Add Two Numbers

This program asks the user to input two numbers and then displays their sum.

- ```
num1 = int(input("Enter Number 1 :"))
num2 = int(input("Enter Number 2 :"))
value = num1 + num2
print("The sum is", value)
```

### 2 Convert String to Integer and Multiply

Here we convert a string '100' into an integer and multiply it by 2 using different methods.

- ```
# 1st Method
value = int("100")
print(value * 2)

# 2nd Method
test = "100"
test2 = int(test)
test3 = test2 * 2
print(test3)

# 3rd Method
print(int("100") * 2)
```

3 Module 3: Operators and Expressions

Operators are used to perform operations on variables and values. Here are examples of arithmetic operations:

- ```
a = 5
b = 3
print(a + b)
print(a - b)
print(a * b)
print(a ** 2)
print(a / b) # Normal Division
print(a // b) # Floor Division
```

```
Division Examples
```

```
print(10 / 5)
```

```
print(10 // 5)
```

```
print(12 / 3)
```

```
Modulus (Remainder)
```

```
print(10 % 6)
```

```
print(50 % 8)
```

```
print(100 % 23)
```

```
print(250 % 100)
```

```
print(251 % 100)
```

```
Operator Precedence Examples
```

```
print(10 - 2 * 3)
```

```
print(100 + 50 * 2)
```

```
print(20 / 10 - 5 + 3 * 2)
```

```
print(2 + 10 - 5 * 10)
```

```
print(10 + 2 * 5) # 20
```

```
print(50 - 10 / 2) # 45.0
```

```
print(8 + 6 - 3 * 2) # 8
```

```
print(20 / 5 + 3 * 4) # 16.0
```

```
print(2 + 3 ** 2) # 11
```

```
print(15 // 4 + 2) # 5
```

```
print(18 % 5 + 10) # 13
```

```
print(10 + 5 * 2 - 3) # 17
```

```
print((10 + 2) * 3) # 36
```

```
print(100 - (20 + 5 * 3)) # 65
```

## **Module 4: Control Structures**

Control structures determine the flow of a program. Here we use conditional statements (if, elif, else) to check conditions.

- **# Check if a number is positive, negative, or zero**

```
number = int(input("Enter Number: "))
```

```
if number > 0:
```

```
 print("Positive Number")
```

```
elif number < 0:
```

```
 print("Negative Number")
```

```
else:
```

```
 print("Zero")
```

- 

#### # Password Check Example

```
password = "abc123"
mypassword = input("Enter your password: ")
if password == mypassword:
 print("Access Granted")
else:
 print("Access Denied")
```

✅ End of Practical Session

Prepared by: Lahiru Neththasinghe