

# **ANSWER KEY**

## **PYTHON WORKBOOK – SECTION 2**

### ***Variables, Data Types & Operators***

Programmer's Hub – by CodeWithVivek  
<https://www.youtube.com/@code-with-vivek>

Code with Vivek

## 2.1 Variables

### Debug This:

2name is invalid → variable names cannot start with a number.

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## 2.2 Data Types

### Value Type

"123" str

123 int

12.0 float

True bool

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## 2.3 Typecasting

### Debug This:

int("twenty") → cannot convert the word "twenty" to a number.

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## 2.4 Arithmetic Operators

1.  $17 // 3 = 5$

2.  $17 \% 3 = 2$

3.  $2 ** 5 = 32$

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## 2.5 Relational & Logical Operators

### Debug This:

$5 > "3"$  → Cannot compare int with str.

## 2.6 f-Strings

### Sample answer:

```
name = "Vivek"

age = 25

print(f"My name is {name} and I am {age} years old.")
```

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### Mini Assignment – Example Solution

```
name = input("Enter name: ")

m1 = float(input("Enter marks 1: "))
m2 = float(input("Enter marks 2: "))
m3 = float(input("Enter marks 3: "))

total = m1 + m2 + m3
avg = total / 3

print(f"Hello {name}, your total is {total} and your average is {avg}")

if avg >= 40 and avg <= 100:
    print("Result: PASS")
else:
    print("Result: FAIL")
```