

Worksheet 01: Python Variables and Types

Name: _____ Date: _____

Instructions

- Answer in the blanks.
 - For “write code” questions, write valid Python code.
 - For “what does it print” questions, write the exact output.
-

Part A – Variables and Values

1) Variable name vs value

Look at the code:

```
favorite_food = "ice cream"
```

Fill in the blanks:

- Variable name: _____
 - Value: _____
-

2) Create three variables

Write Python code to create these variables:

- `age` with value `12`
- `height` with value `1.52`
- `student` with value `"Mia"`

3) Match variable names and values

Look at the code:

```
x = 5  
y = 7  
message = "Hi"
```

Fill in:

- `x` stores the value: _____
 - `y` stores the value: _____
 - `message` stores the value: _____
-

Part B – Types (`int`, `float`, `str`)

4) What are the types?

For each variable, write `int`, `float`, or `str`.

```
a = 0  
b = -3  
c = 2.75  
d = "Hello"  
e = "42"
```

1. `a` is _____
 2. `b` is _____
 3. `c` is _____
 4. `d` is _____
 5. `e` is _____
-

5) True or False

Write **True** or **False**.

1. `"123"` is a string. _____
 2. `123` is an integer. _____
 3. `3.0` is a float. _____
 4. `"3.0"` is a float. _____
-

6) Make it the type you want

Start with this code:

```
x = 7
```

Change `x` to be:

- a **float** (decimal number): _____
- a **string** (text): _____

(Write two different lines of Python code.)

Part C – `print(...)`

7) What does this print?

```
name = "Alex"  
print(name)
```

Output:

8) Print text + a variable

```
student = "Chelsea"  
print("Student:", student)
```

Output:

9) Print two lines

```
food = "pizza"  
number = 3  
print(food)  
print(number)
```

Output:

10) Print multiple values on one line

```
x = 2  
y = 10  
print("x =", x, "y =", y)
```

Output:

Part D — Quotes vs no quotes

11) What is the difference?

```
animal = "cat"  
print(animal)  
print("animal")
```

Output:

Then answer:

- `animal` (no quotes) prints: _____
 - `"animal"` (with quotes) prints: _____
-

12) Spot the mistake (strings need quotes)

This code has a problem. Fix it.

```
name = Chelsea  
print(name)
```

Write the corrected code:

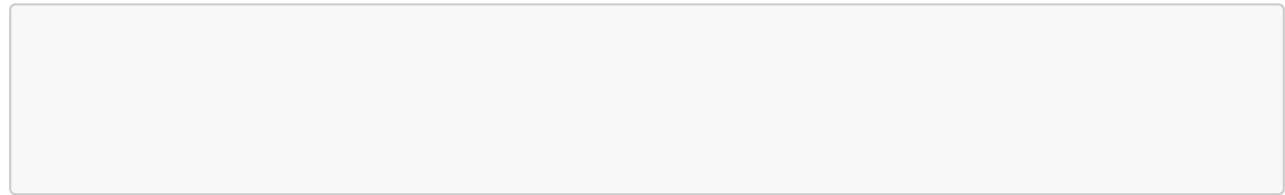
```
# corrected code
```

Part E – `type(...)`

13) What does this print?

```
x = 3  
y = 3.0  
z = "3"  
  
print(type(x))  
print(type(y))  
print(type(z))
```

Output:



14) Types practice

```
score = 95  
pi = 3.142  
word = "Python"
```

Fill in:

- `type(score)` is _____
- `type(pi)` is _____
- `type(word)` is _____

Part F – Mini coding tasks

15) Make a simple “profile”

Create variables for:

- `name` (a string)
- `age` (an int)
- `height` (a float)

Then print **three lines** like this (your values can be different):

```
Name: Mia  
Age: 12  
Height: 1.52
```

Write your code:



16) Challenge: Print types and values

Create these variables:

- `a = 5`
- `b = 2.5`
- `c = "5"`

Then print (in any order): - the value of each variable - and the type of each variable

Write your code: