

Python Variables

NAME : _____

CLASS : _____

DATE : _____

1. A named memory location used to store values in computer is a ...

- | | |
|--|------------------------------------|
| <input type="checkbox"/> A Variable | <input type="checkbox"/> B String |
| <input type="checkbox"/> C Hard Drive Disk | <input type="checkbox"/> D Casting |

2. Choose three properties of a variable below:

- | | |
|---|---|
| <input type="checkbox"/> A Has a name. | <input type="checkbox"/> B Has a length. |
| <input type="checkbox"/> C Has a data type. | <input type="checkbox"/> D Holds a value. |

3. Choose variable rules from the list below:

- | | |
|--|--|
| <input type="checkbox"/> A Can use _ to join words separated words | <input type="checkbox"/> B Can only contain (A-Z, a-z) and 0-9 characters, and _ |
| <input type="checkbox"/> C Must not begin with a number | <input type="checkbox"/> D Must be in lower case |

4. In what way is a constant different from a variable?

- | | |
|--|--|
| <input type="checkbox"/> A It can store more than one value | <input type="checkbox"/> B Its name should be written in UPPER CASE so it can be easily identified as a constant |
| <input type="checkbox"/> C It does not change its value during program execution | |

5. The process of giving a value to a variable is ...

- | | |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> A Assignment | <input type="checkbox"/> B Debugging |
| <input type="checkbox"/> C Comparison | <input type="checkbox"/> D Allocation |

6. Choose valid variable names from the list of options given below:

- | | |
|---------------------------------------|--------------------------------------|
| <input type="checkbox"/> A Last_name | <input type="checkbox"/> B firstName |
| <input type="checkbox"/> C first Name | <input type="checkbox"/> D f1_name |
| <input type="checkbox"/> E 1st_name | |

7.

```
Num = 90
Num = 20
print(Num)
```

- | | |
|--------------------------------|---------------------------------|
| <input type="checkbox"/> A 4.5 | <input type="checkbox"/> B 20 |
| <input type="checkbox"/> C 90 | <input type="checkbox"/> D 1800 |

8. In the following code, what type of variable is being created?

```
foo = "bar"
```

- | | |
|------------------------------------|----------------------------------|
| <input type="checkbox"/> A Integer | <input type="checkbox"/> B Float |
| <input type="checkbox"/> C String | |

9. In the following code, what value will be assigned to the variable "cat"?

```
mouse, cat, dog = "small", "medium", "large"
```

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> A small, medium, large | <input type="checkbox"/> B medium |
| <input type="checkbox"/> C large | <input type="checkbox"/> D small |
| <input type="checkbox"/> E Nothing, that operation will throw an error | |

10. In the following code, what value will be assigned to the variable "cat"?

```
mouse + cat + dog = "small" + "medium" + "large"
```

- | | |
|---|--|
| <input type="checkbox"/> A small | <input type="checkbox"/> B medium |
| <input type="checkbox"/> C small, medium, large | <input type="checkbox"/> D Nothing, that operation will throw an error |
| <input type="checkbox"/> E large | |

11.

```
Python 3.6.1 Shell
File Edit Shell Debug Options Window Help
Python 3.6.1 Shell (64-bit), GUI 3.2017, 1712x49 [MS: v.1000 32-bit (64-bit)]
>>>
>>> firstName = "Hyperion"
>>> lastName = "Hub"
>>> fullName = firstName + lastName
>>> space = " "
>>> fullName = firstName + space + lastName
>>> print(fullName)
Hyperion Hub
>>>
```

Looking at the following code, what are the names of the variables:

- | | | | |
|-------------------------|--------------------------------------|-------------------------|--------------------------------------|
| <input type="radio"/> A | firstName, lastName, fullName, space | <input type="radio"/> B | firstName, lastName, fullName |
| <input type="radio"/> C | Hyperion, Hub | <input type="radio"/> D | FIRSTNAME, LASTNAME, FULLNAME, SPACE |

12. What rule is the following variable name BREAKING:

1st_Name

- | | | | |
|-------------------------|--|-------------------------|--|
| <input type="radio"/> A | No special characters other than underscore | <input type="radio"/> B | Only use text for the start of the variable name - no numbers at start |
| <input type="radio"/> C | There is nothing wrong with this variable name | <input type="radio"/> D | Keep names meaningful |

13. What rule is the following variable name BREAKING?

StudentNo.

- | | | | |
|-------------------------|--|-------------------------|---|
| <input type="radio"/> A | There is nothing wrong with this variable name | <input type="radio"/> B | Keep variable names meaningful for the task they are being used for |
| <input type="radio"/> C | No special symbols other than the underscore | <input type="radio"/> D | Only use text for the starting letter of a variable name - not numbers at the start |

14. Which name would be meaningful in keeping a record of someone's high score?

- | | | | |
|-------------------------|-----------|-------------------------|-------|
| <input type="radio"/> A | hs | <input type="radio"/> B | score |
| <input type="radio"/> C | highScore | <input type="radio"/> D | s |

15. Which of the below are acceptable variable names?

- | | | | |
|-------------------------|------------------|-------------------------|------------------|
| <input type="radio"/> A | result#final = 4 | <input type="radio"/> B | result final = 5 |
| <input type="radio"/> C | result-final = 1 | <input type="radio"/> D | resultFinal = 3 |

16. The correct way to write a variable in Python?

☐ A myVariable = 10

☐ B myVariable: 10

☐ C my Variable = 10

☐ D myVariable is 10

Answer Key

1.a

2.

3.

4.

5.a

6.

7.b

8.c

9.b

10.d

11.a

12.b

13.c

14.c

15.d

16.a