# Multiple Choice Questions on Data Types and Variables in Python

1. What is the data type of the following variable?  
x = 10

A) float

**B) int**

C) str

D) bool

2. What will be the output of the following code?  
x = 5.5  
print(type(x))

A) int

**B) float**

C) str

D) bool

3. What will be the output of the following code?

x = "Hello"  
y = 10  
print(type(x) == type(y))

A) True

**B) False**

C) None

D) Error

4. What is the correct way to declare a string in Python?

A) x = 'Hello'

B) x = "Hello"

C) x = '''Hello'''

**D) All of the above**

5. What will be the output of the following code?

a = True  
b = False  
print(a + b)

**A) 1**

B) 0

C) True

D) False

6. What is the default data type of a variable assigned with a numeric value containing a decimal point?

A) int

**B) float**

C) double

D) complex

7. What will be the output of the following code?  
x = 3 + 4j  
print(type(x))

A) int

B) float

**C) complex**

D) str

8. What will be the output of the following code?

x = "10"  
y = 2  
print(x \* y)

A) 20

**B) 1010**

C) 12

D) Error

9. Which of the following is a valid variable name in Python?

A) 2var

B) @var

C) var\_name

**D) \_var**

10. What will be the output of the following code?  
x = None  
print(type(x))

A) str

B) int

C) bool

**D) NoneType**

**11. What is the output of bool("") in Python?**

A) True  
B) **False**  
C) None  
D) Error

**12. Which of the following is an immutable data type?**

A) list  
B) **tuple**  
C) dictionary  
D) set

**13. Which of the following statements correctly defines a variable in Python?**

A) x : int = 10  
B) x = 10  
C) x, y = 5, "hello"  
D) **All of the above**

**14. What is the correct syntax for defining a constant variable in Python?**

A) const PI = 3.14  
B) PI = 3.14  
C) **PI = 3.14 # In uppercase to indicate a constant**  
D) define PI 3.14

**15. What will be the output of type([]) in Python?**

A) **list**  
B) tuple  
C) dict  
D) set

**16. What will be the output of the following code?**

x = 10

y = 10.5

print(type(x + y))

A) **float**  
B) int  
C) str  
D) complex

**17. What will be the output of the following code?**

x = "5"

y = 2

print(x + str(y))

A) 7  
B) **"52"**  
C) Error  
D) "25"

**18. What will be the output of type({}) in Python?**

A) list  
B) **dict**  
C) set  
D) tuple

**19. Which of the following is not a valid Python data type?**

A) list  
B) dictionary  
C) array  
D) **char**

**20. What will be the output of the following code?**

x = [1, 2, 3]

print(type(x))

A) tuple  
B) dict  
C) **list**  
D) set

**21. Which of the following statements is correct about Python variables?**

A) Variables must be declared before use.  
B) **Variables do not need explicit declaration.**  
C) Variable type must be defined before assignment.  
D) Python does not support variables.

**22. What will be the output of type(set())?**

A) **set**  
B) dict  
C) list  
D) tuple

**23. What is the output of the following code?**

x = (1,)

print(type(x))

A) list  
B) **tuple**  
C) set  
D) int

**24. What is the default data type of a variable assigned with a boolean value?**

A) int  
B) **bool**  
C) str  
D) float

**25. What will be the output of the following code?**

x = "Hello"

y = 'Hello'

print(x == y)

A) True  
B) **True**  
C) False  
D) Error

**26. What is the type of range(10) in Python?**

A) list  
B) tuple  
C) **range**  
D) generator

**27. What will be the output of type({1, 2, 3})?**

A) **set**  
B) dict  
C) list  
D) tuple

**28. What will be the output of type(True + 5)?**

A) **int**  
B) float  
C) bool  
D) str

**29. Which of the following is a mutable data type?**

A) tuple  
B) **list**  
C) string  
D) int

**30. What is the correct way to delete a variable in Python?**

A) drop var\_name  
B) **del var\_name**  
C) delete var\_name  
D) remove var\_name

**31. What will be the output of the following code?**

x = "Python"

print(len(x))

A) **6**  
B) 5  
C) Error  
D) None

**32. Which of the following is used to check the data type of a variable?**

A) checktype()  
B) typeof()  
C) **type()**  
D) datatype()

**33. What will be the output of type(10/2) in Python?**

A) int  
B) **float**  
C) double  
D) complex

**34. What will be the output of the following code?**

x = {1, 2, 3, 3, 2}

print(len(x))

A) 5  
B) **3**  
C) 2  
D) 4

**35. Which of the following is true for Python lists?**

A) Lists are immutable  
B) **Lists are mutable**  
C) Lists store only numeric values  
D) Lists store only string values

**36. What is the data type of the variable x in the following code?**

x = (1, 2, "hello", 4.5)

A) list  
B) **tuple**  
C) set  
D) dict

**37. What will be the output of the following code?**

x = 5

y = "Hello"

print(str(x) + y)

A) **"5Hello"**  
B) 5”Hello”  
C) Error  
D) None

**38. What is the result of the following code?**

x = 3.0

y = int(x)

print(y)

A) 3.0  
B) **3**  
C) Error  
D) None

**39. Which of the following statements is true?**

A) Tuple is mutable  
B) **Dictionary keys must be unique**  
C) List keys must be unique  
D) Set allows duplicate values

**40. What will be the output of the following code?**

x = [1, 2, 3]

y = x

y.append(4)

print(x)

A) [1, 2, 3]  
B) **[1, 2, 3, 4]**  
C) Error  
D) None

**41. What will be the output of the following code?**

x = (1, 2, 3)

x[0] = 4

A) **Error**  
B) (4, 2, 3)  
C) (1, 2, 3)  
D) None

**42. What will be the output of type({}) in Python?**

A) set  
B) **dict**  
C) tuple  
D) list

**43. What will be the output of the following code?**

x = 10

print(isinstance(x, int))

A) **True**  
B) False  
C) Error  
D) None

**44. What will be the output of the following code?**

x = "Python"

print(x[0])

A) n  
B) **P**  
C) Error  
D) None

**45. Which of the following is a valid dictionary declaration?**

A) x = ["name": "Alice", "age": 25]  
B) x = [1, 2, 3]  
**C) x = {"name": "Alice", "age": 25}**D) x = (1, 2, 3)

**46. What will be the output of the following code?**

x = "Python"

print(x[-1])

A) **n**  
B) Error  
C) P  
D) None

**47. What will be the output of the following code**

x = [1, 2, 3]

print(x \* 2)

A) **[1, 2, 3, 1, 2, 3]**  
B) [1, 2, 3, 6]  
C) Error  
D) None

**48. What will be the output of bool("False") in Python?**

A) **True**  
B) False  
C) None  
D) Error

**49. What will be the output of type([]) == type({})?**

A) **False**  
B) True  
C) Error  
D) None

**50. What will be the output of the following code?**

x = [1, 2, 3]

y = x.copy()

y.append(4)

print(x)

A) **[1, 2, 3]**  
B) [1, 2, 3, 4]  
C) Error  
D) None