**Basic Python Questions**

1. What is the correct way to create a variable in Python?
   * a) var x = 10
   * b) x = 10
   * c) int x = 10
   * d) declare x = 10
   * **Answer:** b) x = 10
2. What will be the output of print(type(5))?
   * a) <class 'str'>
   * b) <class 'int'>
   * c) <class 'float'>
   * d) <class 'bool'>
   * **Answer:** b) <class 'int'>
3. How do you take user input in Python?
   * a) input()
   * b) scanf()
   * c) read()
   * d) get\_input()
   * **Answer:** a) input()
4. Which keyword is used to define a function in Python?
   * a) define
   * b) function
   * c) def
   * d) func
   * **Answer:** c) def
5. Which of the following is not a valid Python data type?
   * a) int
   * b) float
   * c) double
   * d) list
   * **Answer:** c) double

**Data Types & Operators**

1. What is the output of print(3 \* "Hello")?
   * a) HelloHelloHello
   * b) Hello\*3
   * c) 3Hello
   * d) Error
   * **Answer:** a) HelloHelloHello
2. What will be the data type of print(type(5 / 2))?
   * a) int
   * b) float
   * c) double
   * d) long
   * **Answer:** b) float
3. Which of the following is an immutable data type?
   * a) list
   * b) dict
   * c) tuple
   * d) set
   * **Answer:** c) tuple
4. How do you check the length of a list my\_list?
   * a) count(my\_list)
   * b) my\_list.length()
   * c) len(my\_list)
   * d) size(my\_list)
   * **Answer:** c) len(my\_list)
5. What is the output of bool("")?

* a) True
* b) False
* c) None
* d) Error
* **Answer:** b) False

**Conditional Statements & Loops**

1. Which statement is used to exit a loop prematurely?

* a) stop
* b) break
* c) exit
* d) end
* **Answer:** b) break

1. What is the correct syntax for an if statement?

* a) if x > 10 { print(x) }
* b) if x > 10: print(x)
* c) if (x > 10) then print(x)
* d) if x > 10 then print(x)
* **Answer:** b) if x > 10: print(x)

1. What will range(1, 5) return?

* a) [1, 2, 3, 4, 5]
* b) [1, 2, 3, 4]
* c) [1, 2, 3]
* d) [0, 1, 2, 3, 4]
* **Answer:** b) [1, 2, 3, 4]

1. What will be the output of:
2. for i in range(3):
3. print(i)

* a) 0 1 2
* b) 1 2 3
* c) 0 1 2 3
* d) None
* **Answer:** a) 0 1 2

1. What will while False: do?

* a) Run once
* b) Run infinitely
* c) Never execute
* d) Cause an error
* **Answer:** c) Never execute

**Functions & Modules**

1. What is the default return value of a function that does not return anything explicitly?

* a) 0
* b) None
* c) False
* d) Empty string
* **Answer:** b) None

1. How do you import a module in Python?

* a) import module\_name
* b) include module\_name
* c) require module\_name
* d) use module\_name
* **Answer:** a) import module\_name

1. What is the purpose of lambda in Python?

* a) To define a named function
* b) To create a class
* c) To define an anonymous function
* d) To declare variables
* **Answer:** c) To define an anonymous function

1. What will be the output of:
2. def my\_func(a, b=2):
3. return a + b
4. print(my\_func(3))

* a) 3
* b) 5
* c) None
* d) Error
* **Answer:** b) 5

1. Which statement is used inside a function to return a value?

* a) send
* b) export
* c) return
* d) output
* **Answer:** c) return

**OOP in Python**

1. What is a class in Python?

* a) A function
* b) A blueprint for objects
* c) A module
* d) A loop structure
* **Answer:** b) A blueprint for objects

1. Which keyword is used to define a class?

* a) class
* b) def
* c) object
* d) struct
* **Answer:** a) class

1. What is self in Python classes?

* a) A built-in function
* b) A reference to the instance of the class
* c) A keyword for loops
* d) A variable
* **Answer:** b) A reference to the instance of the class

1. How do you create an object of a class Car?

* a) Car.object()
* b) Car()
* c) new Car()
* d) Car.create()
* **Answer:** b) Car()

1. What is the process of creating an instance from a class?

* a) Instantiation
* b) Inheritance
* c) Initialization
* d) Encapsulation
* **Answer:** a) Instantiation