

# Generated Question Paper

1. How can you declare a variable in Python and assign a value to it?

**Answer:**

In Python, you can declare a variable and assign a value to it in a single line using the following syntax:

```
```python
variable_name = value
```
```

For example, to declare a variable named `number` and assign the value `10` to it, you can write:

```
```python
number = 10
```
```

2. What is the purpose of the 'if' statement in Python? Provide an example code snippet demonstrating its usage.

**Answer:**

The 'if' statement in Python is used to execute a block of code only if a certain condition is true. It allows the programmer to control the flow of the program based on whether a condition is met.

Here is an example code snippet demonstrating the usage of the 'if' statement in Python:

```
```python
x = 10

if x > 5:
    print("x is greater than 5")
```
```

In this example, the code inside the 'if' block (print statement) will only be executed if the condition `x > 5` is true.

3. Explain the difference between a Python list and a Python dictionary. Give an example code for each data structure.

4. How can you create a function in Python? Provide an example of a simple function along with its invocation.

5. What is the significance of indentation in Python programming? Provide an example where incorrect indentation leads to a syntax error.