

# Python Keywords, Identifiers, Comments, Indentation and Statements

June 19, 2024

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[ ]: 1. Explain the significance of Python keywords and provide examples of five ↵  
      ↪keywords.
```

```
[67]: weather = "raining"  
      if weather == "raining":  
          print("carry umbrella")
```

carry umbrella

```
[72]: is_it_raining = False  
      if is_it_raining:  
          print("carry umbrella")  
      else:  
          print("do not carry umbrella")
```

do not carry umbrella

```
[77]: #elif
```

```
[83]: a = 20  
      if a > 90:  
          print("a is greater than 90")  
      elif a < 90:  
          print("a is less than 90")  
      else:  
          print("a is aqual to ")
```

a is less than 90

```
[93]: a = 20  
      if a < 90:  
          print("a is greater than 90")  
      elif a < 90:  
          print("a is less than 90")  
      else:  
          print("a is aqual to ")
```

a is greater than 90

```
[98]: a = 200
      if a == 90:
          print("a is greater than 90")
      elif a < 90:
          print("a is less than 90")
      else:
          print("a is aqual to 90 ")
```

a is aqual to 90

```
[ ]: #continue
```

```
[111]: for i in range(1, 10):
        if i >=6:
            continue
        print(i)
```

1  
2  
3  
4  
5

```
[33]: #break
```

```
[112]: for i in range(1, 10):
        if i >=5:
            break
        print(i)
```

1  
2  
3  
4

```
[ ]: 2.Describe the rules for defining identifiers in Python and provide an example.
Rules - can have letters(uppercase or lowercase), digits and underscore(_).
Cannot use keywords(int, while, for, in) or special characters except_
↳underscore(_) and cannot start with a digit.
```

eg : worldcup - contains lowercase  
T20 - contains uppercase and digit  
T20\_worldcup- contains lowercase, underscore and digit  
\_score - starts with underscore and contains lowercase.

eg (invalid identifiers)

2024worldcup - starts with digit  
&world cup& - starts and contains special characters and had blank space.

[ ]: 3.What are comments in Python, and why are they useful? Provide an example.  
comments in Python is the inclusion of short descriptions along with the code  
→to increase its readability.

eg : *#defining comments. #description the functions.*

[ ]: 4.Why is proper indentation important in Python?  
It is important to define the scope and structure of statements, loops, and  
→functions. so that the codes are readable, maintainable, and less prone to  
→errors.

[ ]: 5.What happens if indentation is incorrect in Python?  
results in an indentationerror exception and can confuse the interpreter

[ ]: 6.Differentiate between expression and statement in Python with examples.  
An expression evaluates a value. eg . x = 1 \* 5 +6  
Statements represent a motion or command e.g print statements.