

Question 1 Is Python case sensitive when dealing with identifiers?

Answer Yes

Question 2 What is the maximum possible length of an identifier?

Answer There is no length limit for identifier

Program Name Printing name, id, salary
demo1.py

```
name = "Daniel"  
emp_id = 11  
emp_salary = 1000.123
```

```
print(name)  
print(emp_id)  
print(emp_salary)
```

Output

Program Name Printing name, id, salary with meaningful info
demo2.py

```
name = "Daniel"
emp_id = 11
emp_salary = 1000.123

print("Emp name is: ",name)
print("Emp id is: ",emp_id)
print("Emp salary is: ",emp_salary)
```

Output

Program Name below variable names are valid or invalid
demo3.py

```
a=1
_a = 2            # single underscore
__a = 3           # two underscore
__a__ = 4        # two underscores starting and ending of the
variable

print(a)
print(_a)
print(__a)
print(__a__)
```

Output

Program Name below variable names are valid or invalid
demo4.py

```
name = "Daniel"  
name_1='Abhishek'  
_ = 'Ramesh'
```

```
print(name)  
print(name_1)  
print(_)
```

Output

Program Name below variable names are valid or invalid
demo5.py

```
name = "Daniel"  
name_1 = "Naresh"  
1_name = "Srihari"  
_ = "Ramesh"
```

```
print(name)  
print(name_1)  
print(1_name)  
print(_)
```

Output

Program Name below variable names are valid or invalid
demo6.py

```
name = "Daniel"  
name_1 = "Abhishek"  
$_name = "Srihari"  
_ = "Ramesh"
```

```
print(name)  
print(name_1)  
print(1_name)  
print(_)
```

Output

Program Name below variable name is valid or invalid
demo7.py

```
abc = 1,000,000  
print(abc)
```

Output

Program Name below variable name is valid or invalid
demo8.py

```
abc = 1,000,000
print(abc)
print(type(abc))
```

Output

Program Name below variable names are valid or invalid
demo9.py

```
a b c = 1000 2000 3000
print(a b c)
```

Output

Program Name below variable names are valid or invalid
demo10.py

```
a b c = 1000 2000 3000
print(a b c)
print(type(a b c))
```

Output

Program Name below variable names are valid or invalid
demo11.py

```
a, b, c = 1000, 2000, 3000  
print(a, b, c)
```

Output

Program Name below variable names are valid or invalid
demo12.py

```
a, b, c = 1000, 2000, 3000  
print(a, b, c)  
print(type(a, b, c))
```

Output

Program below variable names are valid or invalid
Name demo13.py

```
a, b, c = 1000, 2000, 3000  
print(a, b, c)
```

```
print(type(a))  
print(type(b))  
print(type(c))
```

Output

Program below variable name is valid or invalid
Name demo14.py

```
a_b_c = 1,2,3  
print(a_b_c)
```

Output

Program below variable name is valid or invalid

Name demo15.py

```
a_b_c = 1,2,3  
print(a_b_c)  
  
print(type(a_b_c))
```

Output

Program below program valid or invalid

Name demo16.py

```
10  
print("hello")
```

Output

Program below program valid or invalid

Name demo17.py

```
a  
print("hello")
```

Output

Invalid cases for variables

1. While creating a variable,

- Variable name should be written in left hand side.
- Value should be written in right hand side
- Otherwise we will get syntax error.

Program Name Creating variable in wrong direction
demo18.py

```
10 = emp_id  
print(emp_id)
```

Error
SyntaxError: can't assign to literal

2. variables names,

- should not give as keywords names, otherwise we will get error

Program Name keywords we should not use as variable names
demo19.py

```
if = 10  
print(if)
```

Error
SyntaxError: invalid syntax

3. Variables name without value is invalid.

Program Variable without value is invalid.
Name demo20.py

```
a  
print(a)
```

Error **NameError:** name 'a' is not defined