

**Assignment -1**  
Python Programming

Assignment Date	01.10.2022
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Maximum Marks	2 Marks

**Question-1:**

Write a Python program to empty a variable without destroying it.

Sample data: n=20

d = {"x":200}

Expected Output : 0


{}

**Solution:**

```
n = 20
d = {"x":200}
l = [1,3,5]
t= (5,7,8)
print(type(n))
print(type(d))
print(type(l))
print(type(t))
```

**Output:**

```
main.py
1 n = 20
2 d = {"x":200}
3 l = [1,3,5]
4 t = (5,7,8)
5 print(type(n))
6 print(type(d))
7 print(type(l))
8 print(type(t))
9
```

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```
0
{}
[]
()
```

## Question-2:

Write a Python program to determine the largest and smallest integers, longs, floats.

### Solution:

```
import sys

print("Float value information: ",sys.float_info)

print("\nInteger value information: ",sys.int_info)

print("\nMaximum size of an integer: ",sys.maxsize)
```

Output:

```
main.py
1 import sys
2 print("Float value information: ",sys.float_info)
3 print("\nInteger value information: ",sys.int_info)
4 print("\nMaximum size of an integer: ",sys.maxsize)
5
```

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```
Float value information:
sys.float_info(max=1.7976931348623157e+308,
max_exp=1024, max_10_exp=308,
min=2.2250738585072014e-308, min_exp=-1021,
min_10_exp=-307, dig=15, mant_dig=53,
epsilon=2.220446049250313e-16, radix=2,
rounds=1)

Integer value information:
sys.int_info(bits_per_digit=30,
sizeof_digit=4)

Maximum size of an integer:
9223372036854775807
```

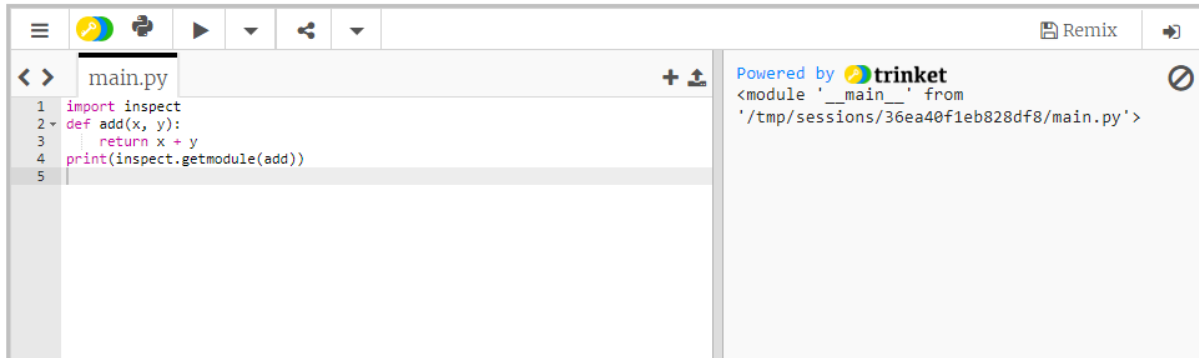
## Question-3:

Write a Python program to get the actual module object for a given object.

Solution:

```
from inspect import getmodule
from math import sqrt
print(getmodule(sqrt))
```

Output:



The screenshot shows a Python IDE interface. On the left, a code editor window titled 'main.py' contains the following code:

```
1 import inspect
2 def add(x, y):
3     return x + y
4 print(inspect.getmodule(add))
5
```

On the right, a console window displays the output of the program:

```
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<module '__main__' from
'/tmp/sessions/36ea40f1eb828df8/main.py'>
```

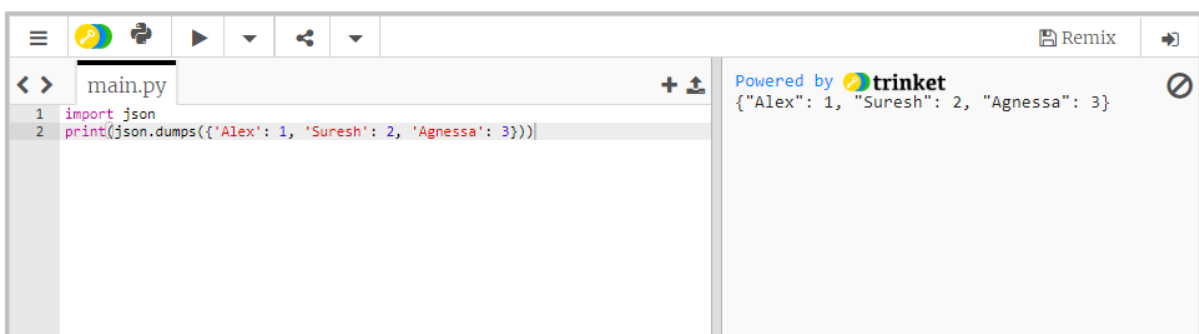
Question-4:

Write a Python program to use double quotes to display strings

Solution:

```
import json
print(json.dumps({'Alex': 1, 'Suresh': 2, 'Agnessa': 3}))
```

Output:



The screenshot shows a Python IDE interface. On the left, a code editor window titled 'main.py' contains the following code:

```
1 import json
2 print(json.dumps({'Alex': 1, 'Suresh': 2, 'Agnessa': 3}))
```

On the right, a console window displays the output of the program:

```
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{"Alex": 1, "Suresh": 2, "Agnessa": 3}
```

Question-5:

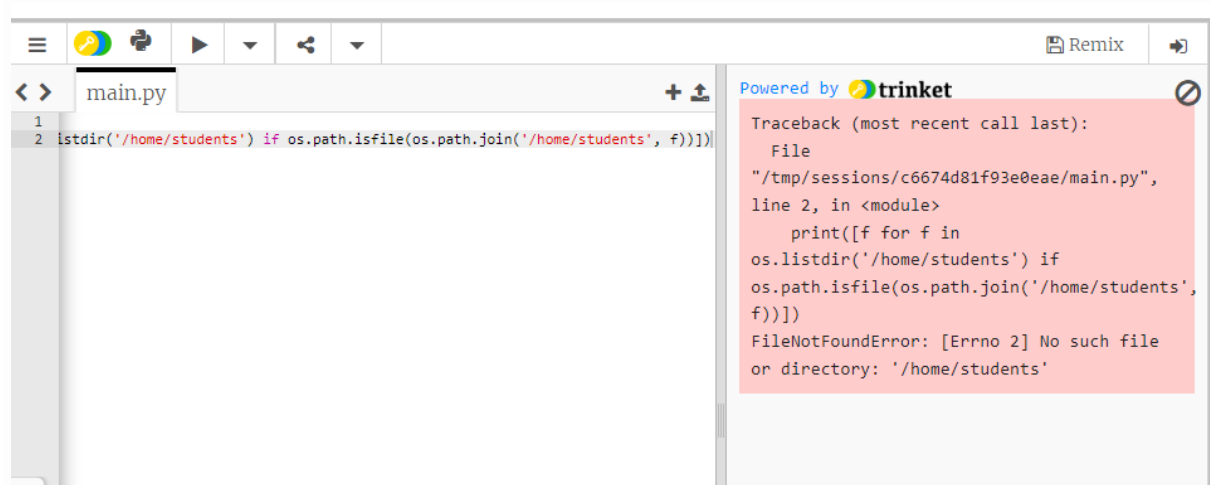
Write a Python program to find files and skip directories of a given directory.

Solution:

```
import os
```

```
print([f for f in os.listdir('/home/students') if os.path.isfile(os.path.join('/home/students', f))])
```

Output:



The screenshot shows a Python IDE interface. On the left, a code editor displays a file named `main.py` with two lines of code: `1` (blank) and `2` `listdir('/home/students') if os.path.isfile(os.path.join('/home/students', f)))]`. The code is syntactically incorrect. On the right, a console window titled "Powered by trinket" shows a traceback error: `Traceback (most recent call last):`, `File`, `"/tmp/sessions/c6674d81f93e0eae/main.py",`, `line 2, in <module>`, `print([f for f in`, `os.listdir('/home/students') if`, `os.path.isfile(os.path.join('/home/students',`, `f)))]`, `FileNotFoundError: [Errno 2] No such file`, `or directory: '/home/students'`.