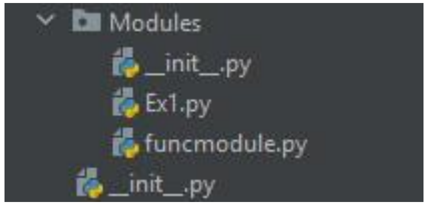
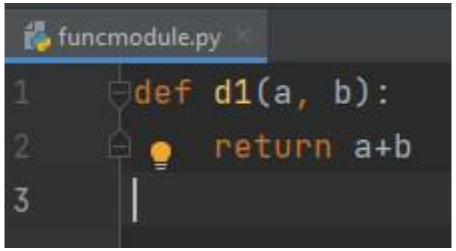
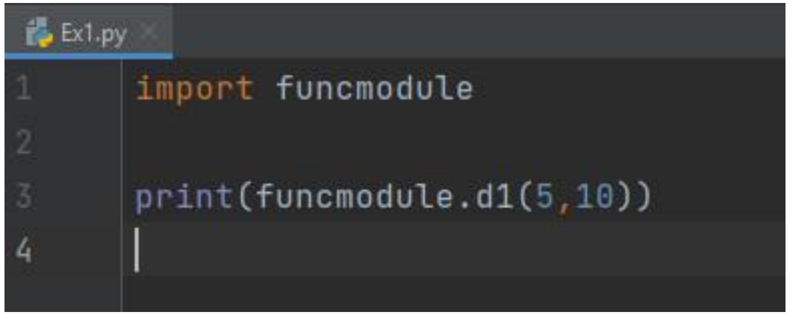
Modules:

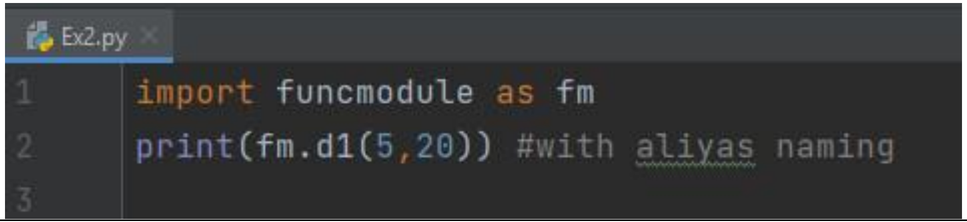




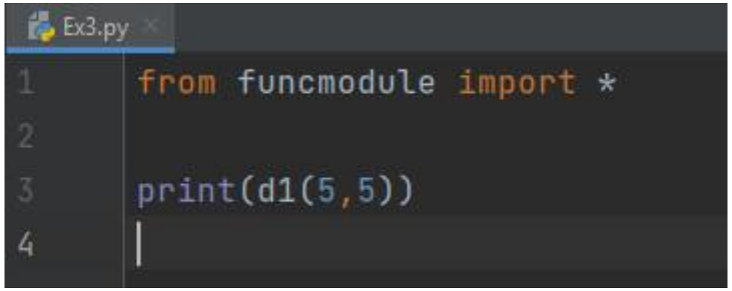
```python
def d1(a, b):
    return a+b

```



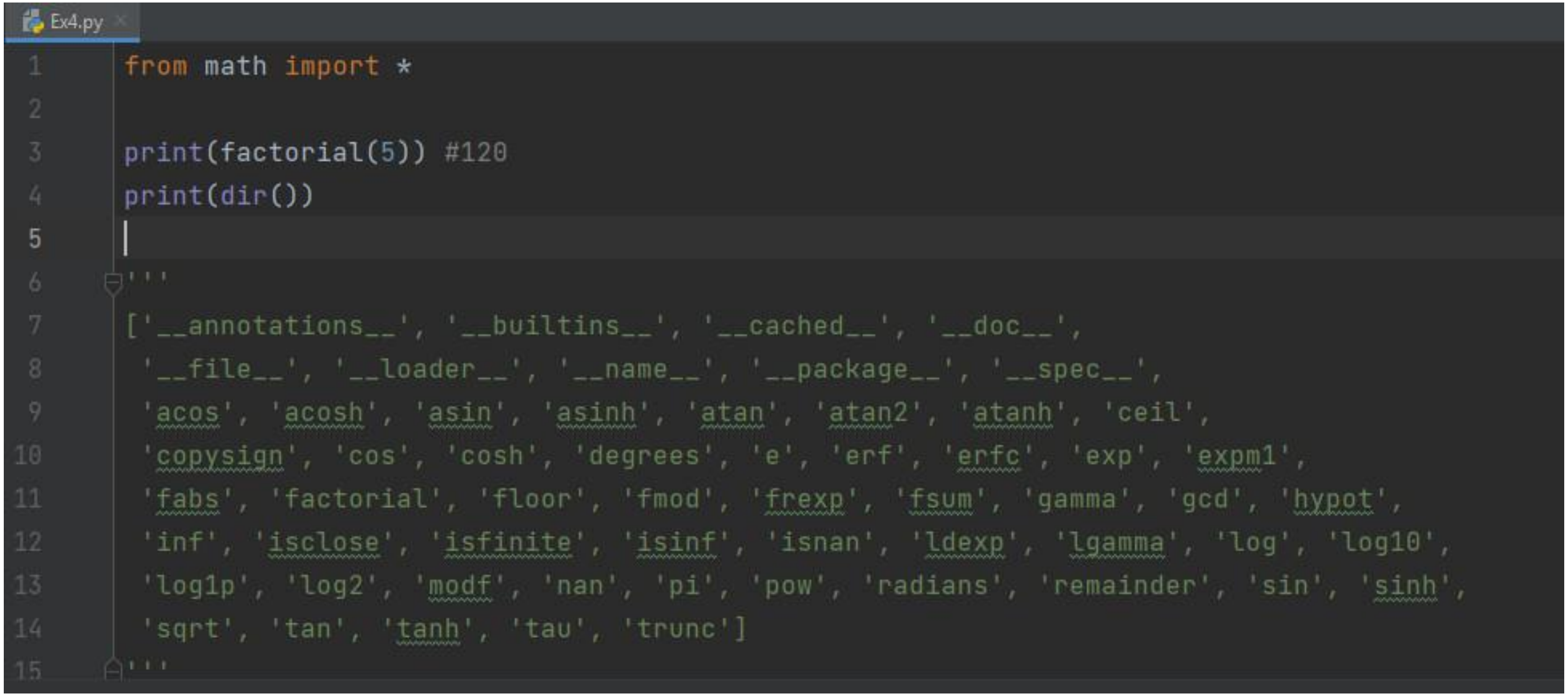
```python
import funcmodule

print(funcmodule.d1(5,10))

```



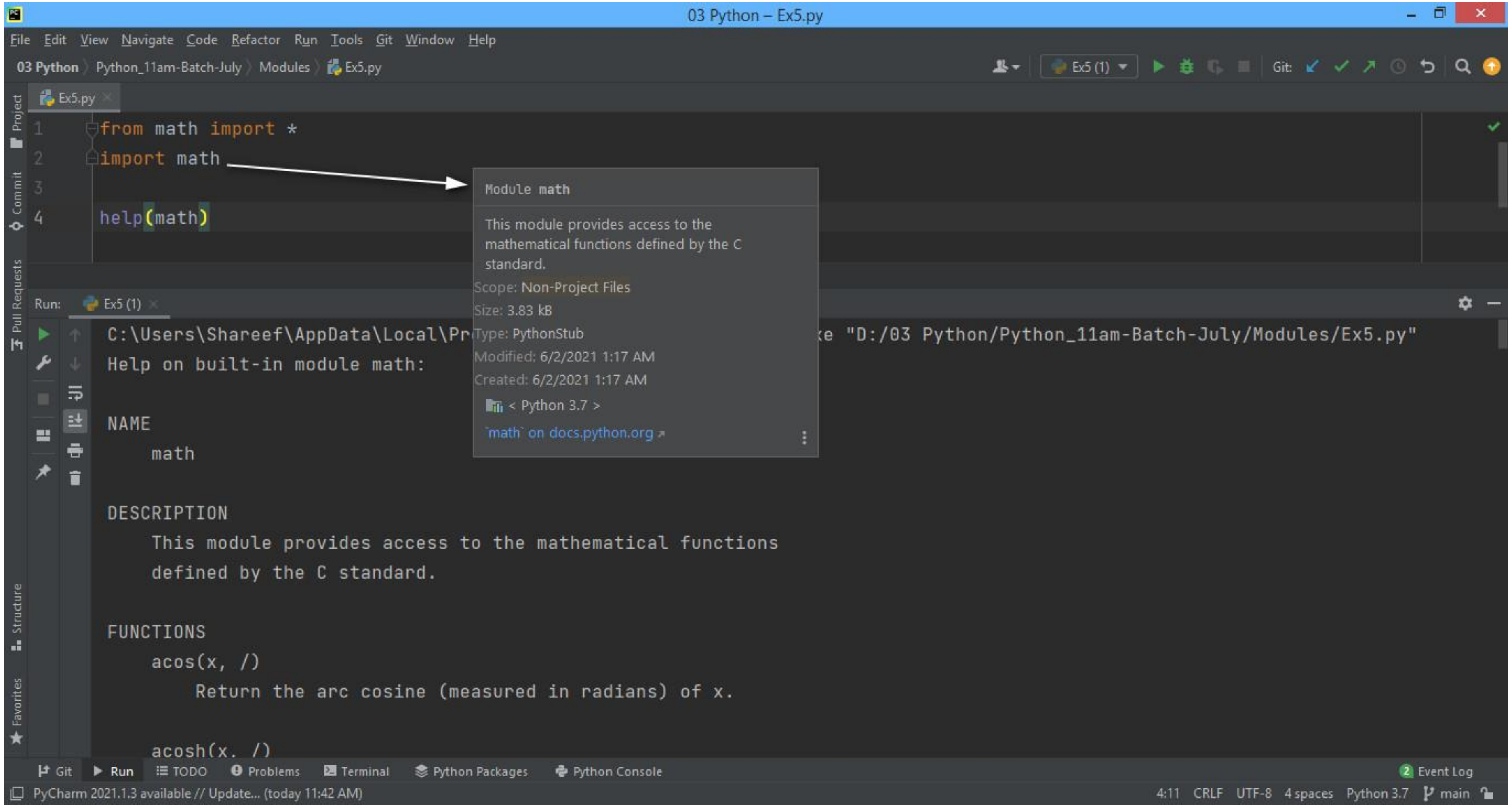
```python
import funcmodule as fm
print(fm.d1(5,20)) #with aliyas naming

```



```python
from funcmodule import *

print(d1(5,5))

```



```
from math import *

print(factorial(5)) #120
print(dir())

'''
['__annotations__', '__builtins__', '__cached__', '__doc__',
 '__file__', '__loader__', '__name__', '__package__', '__spec__',
 'acos', 'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil',
 'copysign', 'cos', 'cosh', 'degrees', 'e', 'erf', 'erfc', 'exp', 'expm1',
 'fabs', 'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot',
 'inf', 'isclose', 'isfinite', 'isinf', 'isnan', 'ldexp', 'lgamma', 'log', 'log10',
 'log1p', 'log2', 'modf', 'nan', 'pi', 'pow', 'radians', 'remainder', 'sin', 'sinh',
 'sqrt', 'tan', 'tanh', 'tau', 'trunc']
'''
```

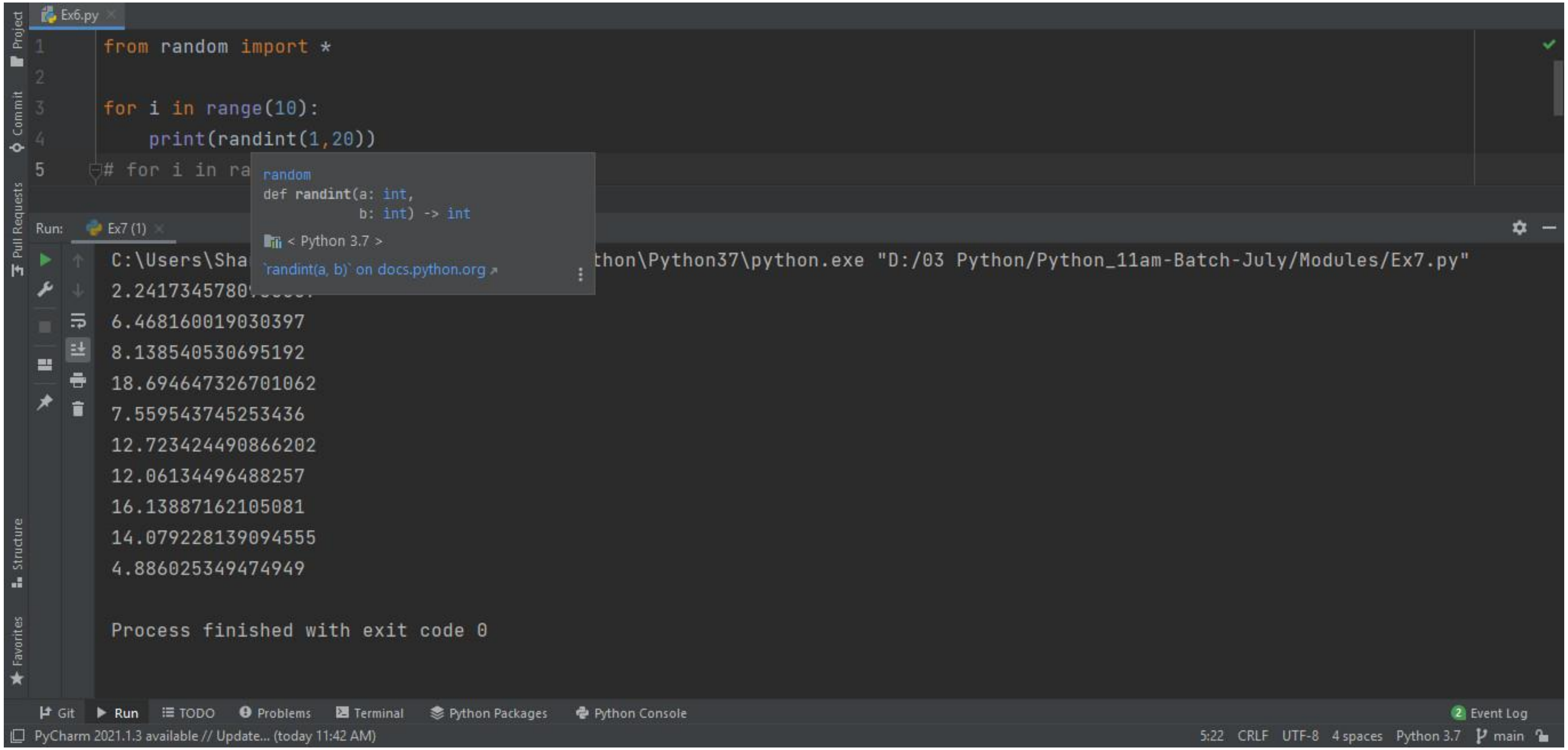


03 Python – Ex5.py
File Edit View Navigate Code Refactor Run Tools Git Window Help
03 Python 〉 Python_11am-Batch-July 〉 Modules 〉 Ex5.py
Ex5 (1)
Git:
Ex5.py
Project
Commit
Pull Requests
Structure
Favorites
Run: Ex5 (1)
Git
Run
TODO
Problems
Terminal
Python Packages
Python Console
2 Event Log
PyCharm 2021.1.3 available // Update... (today 11:42 AM)
4:11 CRLF UTF-8 4 spaces Python 3.7 main

```
from math import *
import math

help(math)
```

```
Module math

This module provides access to the
mathematical functions defined by the C
standard.
Scope: Non-Project Files
Size: 3.83 kB
Type: PythonStub
Modified: 6/2/2021 1:17 AM
Created: 6/2/2021 1:17 AM
< Python 3.7 >
`math` on docs.python.org
```

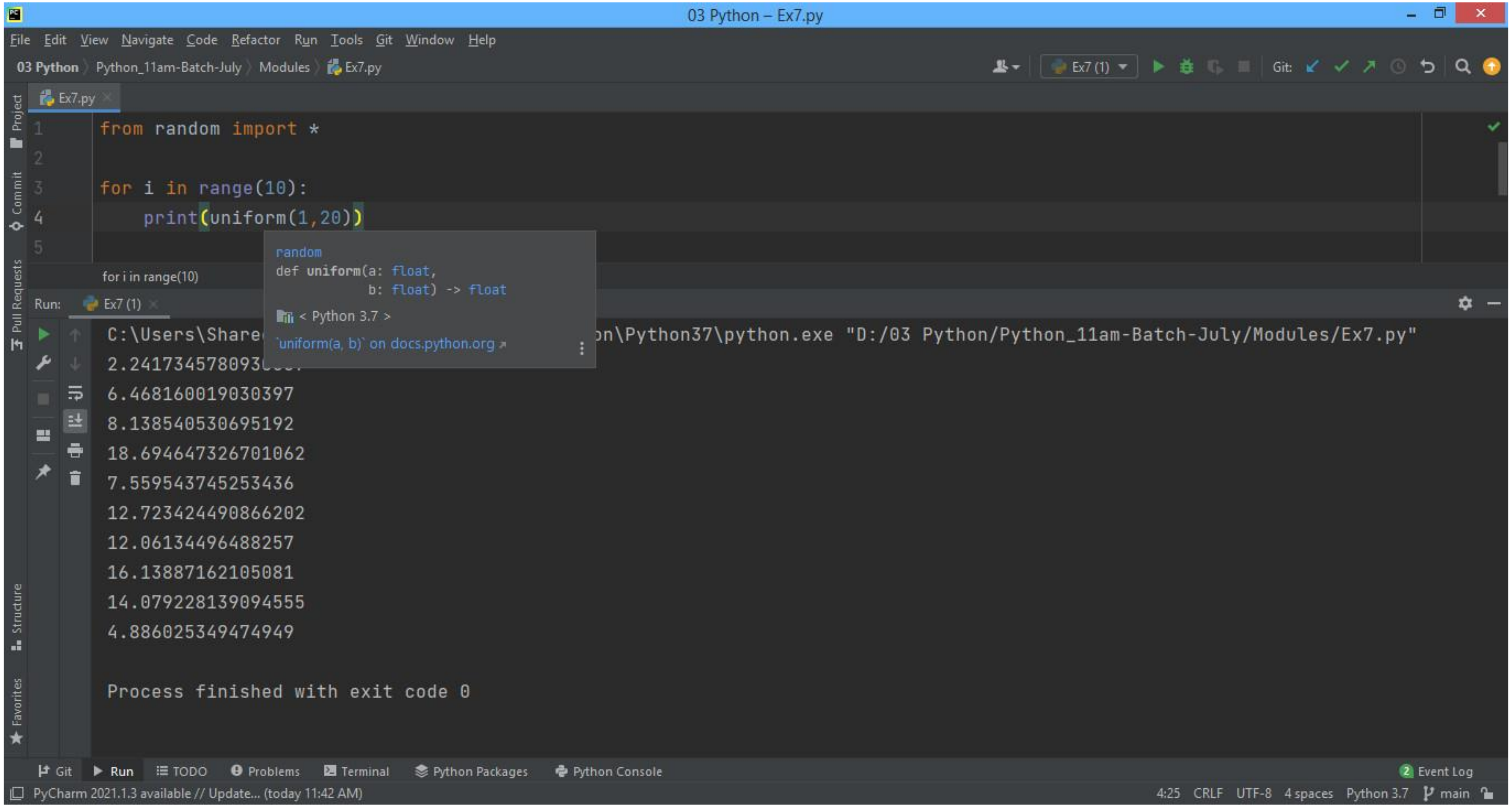
```
C:\Users\Shareef\AppData\Local\Pr                                     e "D:/03 Python/Python_11am-Batch-July/Modules/Ex5.py"
Help on built-in module math:

NAME
    math

DESCRIPTION
    This module provides access to the mathematical functions
    defined by the C standard.

FUNCTIONS
    acos(x, /)
        Return the arc cosine (measured in radians) of x.

    acosh(x, /)
```



```
from random import *

for i in range(10):
    print(randint(1,20))
# for i in ra
```

```
random
def randint(a: int,
            b: int) -> int
< Python 3.7 >
`randint(a, b)` on docs.python.org ↗
```

```
C:\Users\Sha                          thon\Python37\python.exe "D:/03 Python/Python_11am-Batch-July/Modules/Ex7.py"
2.2417345780
6.468160019030397
8.138540530695192
18.694647326701062
7.559543745253436
12.723424490866202
12.06134496488257
16.13887162105081
14.079228139094555
4.886025349474949

Process finished with exit code 0
```

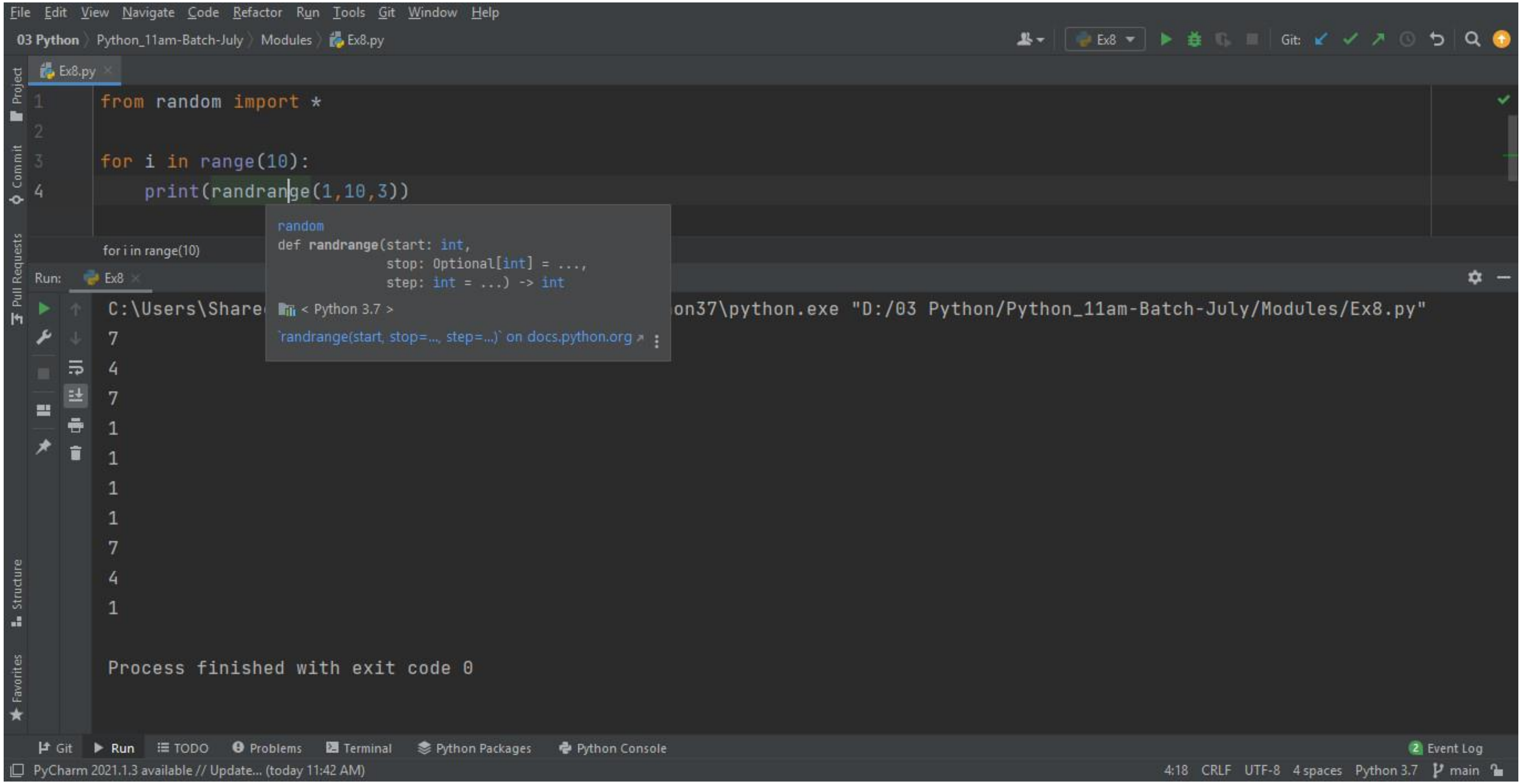


```python
from random import *

for i in range(10):
    print(uniform(1,20))
```

```
random
def uniform(a: float,
            b: float) -> float
< Python 3.7 >
`uniform(a, b)` on docs.python.org ↗
```

```
C:\Users\Share                              on\Python37\python.exe "D:/03 Python/Python_11am-Batch-July/Modules/Ex7.py"
2.24173457809З
6.468160019030397
8.138540530695192
18.694647326701062
7.559543745253436
12.723424490866202
12.06134496488257
16.13887162105081
14.079228139094555
4.886025349474949

Process finished with exit code 0
```

PyCharm 2021.1.3 available // Update... (today 11:42 AM)

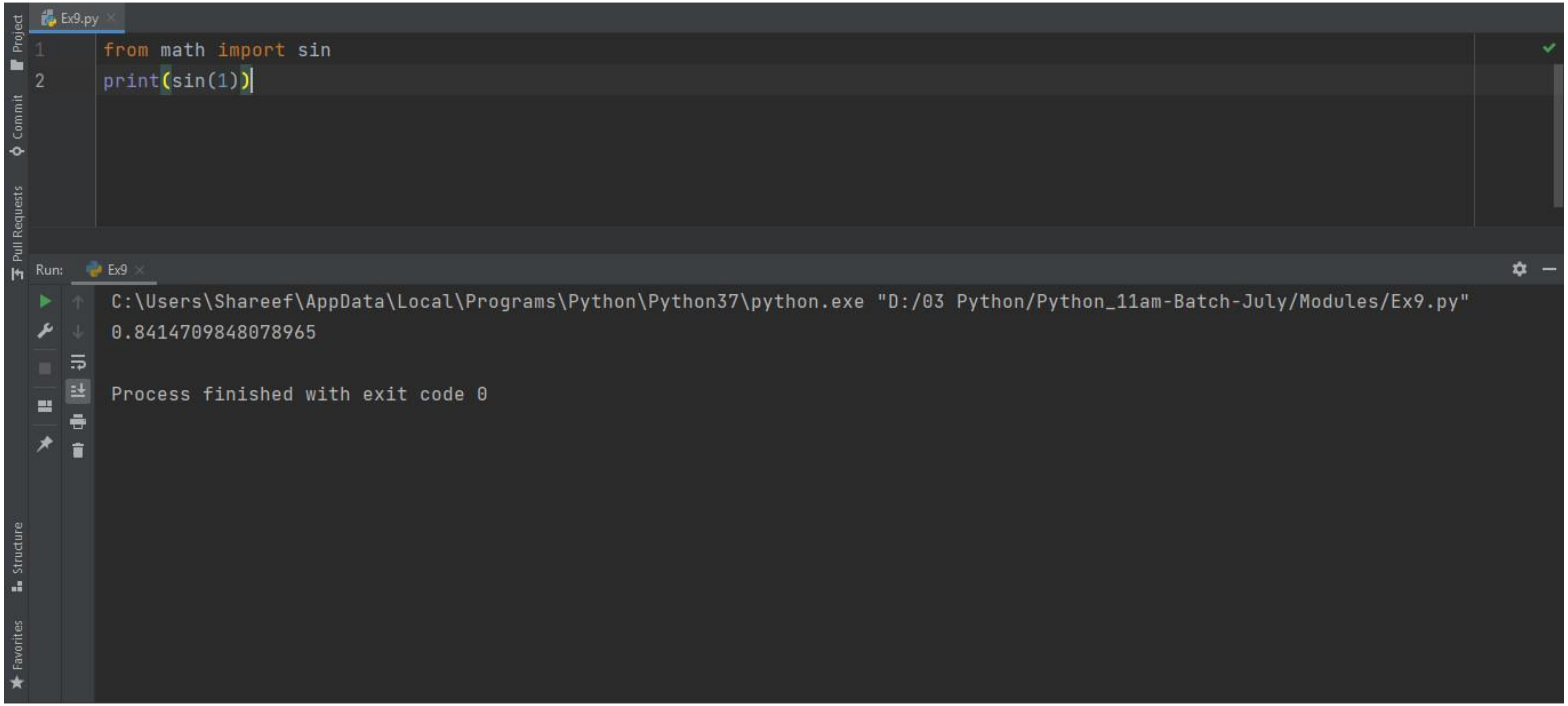


File Edit View Navigate Code Refactor Run Tools Git Window Help
03 Python 〉 Python_11am-Batch-July 〉 Modules 〉 Ex8.py
Ex8
Git:
Ex8.py
Project
Commit
Pull Requests
Structure
Favorites
for i in range(10)
Run: Ex8
Git
Run
TODO
Problems
Terminal
Python Packages
Python Console
2 Event Log
PyCharm 2021.1.3 available // Update... (today 11:42 AM)
4:18 CRLF UTF-8 4 spaces Python 3.7 main

```
from random import *

for i in range(10):
    print(randrange(1,10,3))
```

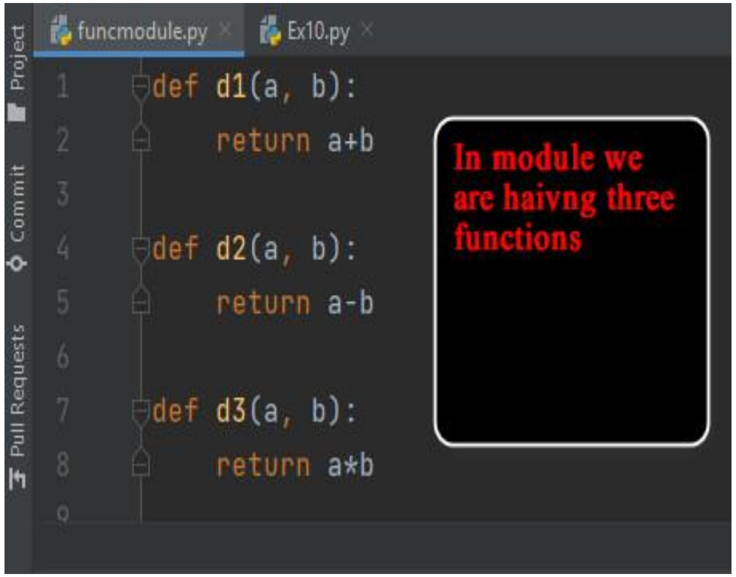
```
random
def randrange(start: int,
              stop: Optional[int] = ...,
              step: int = ...) -> int
< Python 3.7 >
`randrange(start, stop=..., step=...)` on docs.python.org ↗
```

```
C:\Users\Share                                    on37\python.exe "D:/03 Python/Python_11am-Batch-July/Modules/Ex8.py"
7
4
7
1
1
1
1
7
4
1

Process finished with exit code 0
```



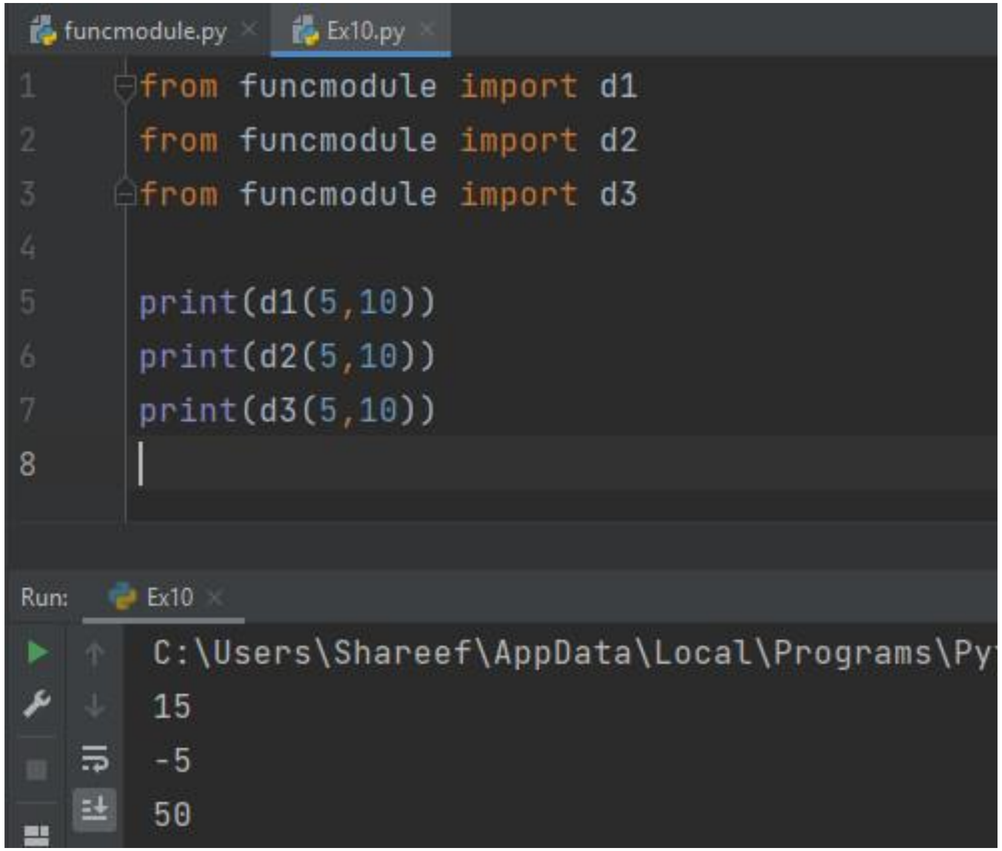
```
from math import sin
print(sin(1))
```

```
C:\Users\Shareef\AppData\Local\Programs\Python\Python37\python.exe "D:/03 Python/Python_11am-Batch-July/Modules/Ex9.py"
0.8414709848078965

Process finished with exit code 0
```



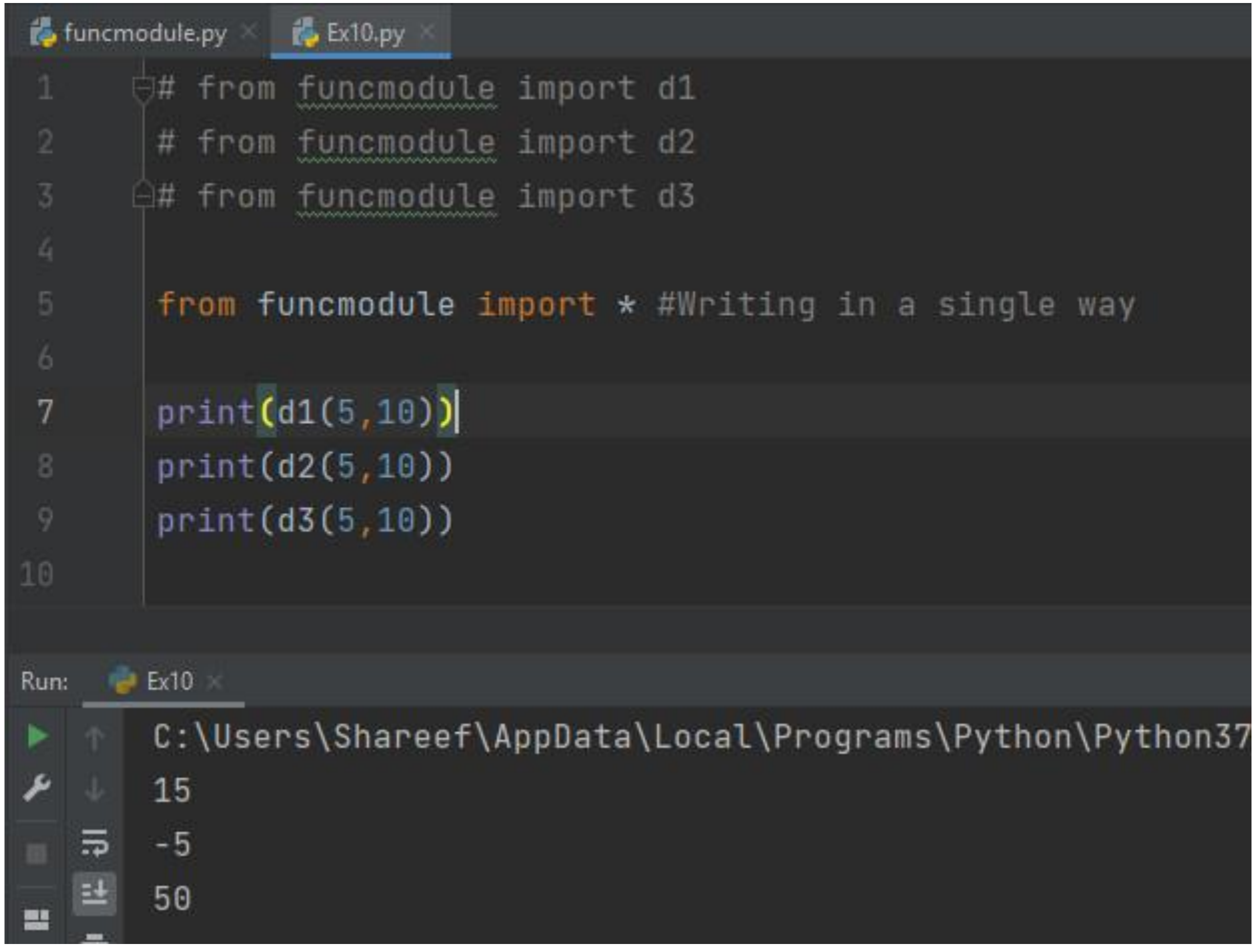
```python
def d1(a, b):
    return a+b

def d2(a, b):
    return a-b

def d3(a, b):
    return a*b
```

In module we are haivng three functions



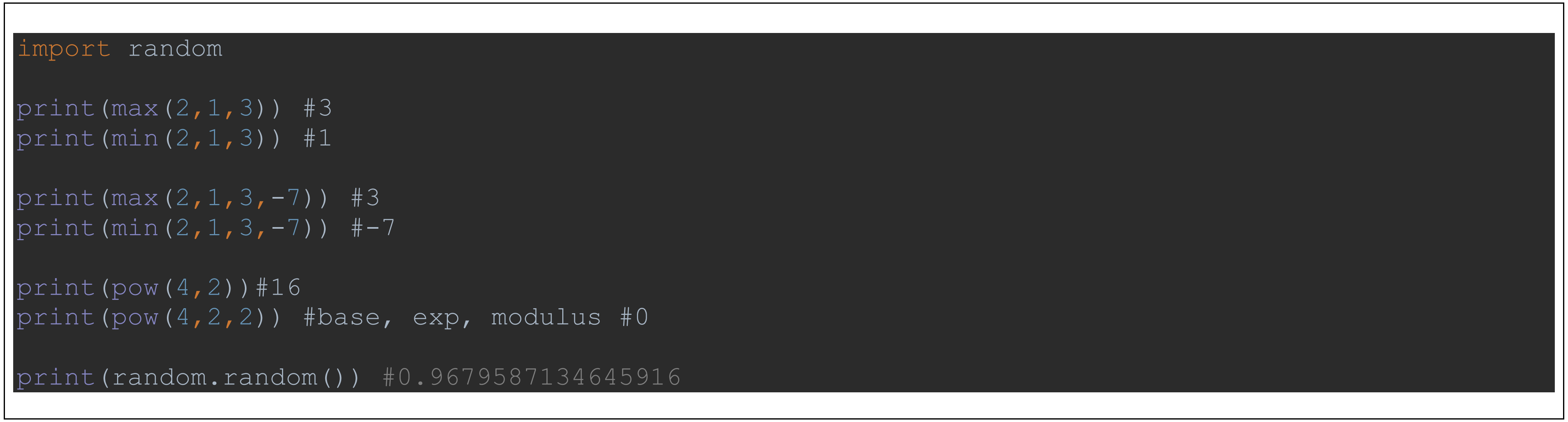
```python
from funcmodule import d1
from funcmodule import d2
from funcmodule import d3

print(d1(5,10))
print(d2(5,10))
print(d3(5,10))
```

```
C:\Users\Shareef\AppData\Local\Programs\Py
15
-5
50
```

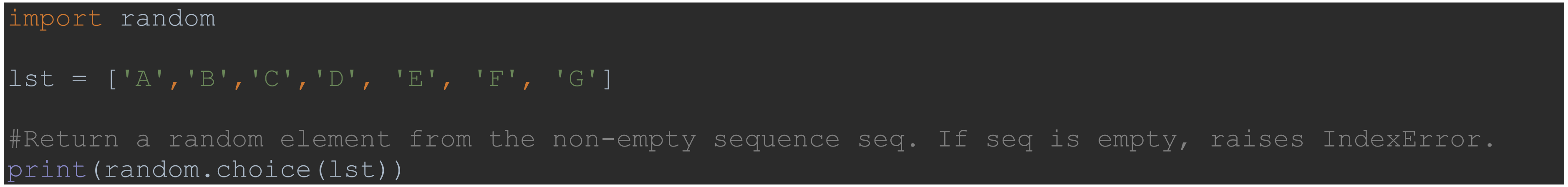


```python
# from funcmodule import d1
# from funcmodule import d2
# from funcmodule import d3

from funcmodule import * #Writing in a single way

print(d1(5,10))
print(d2(5,10))
print(d3(5,10))

```

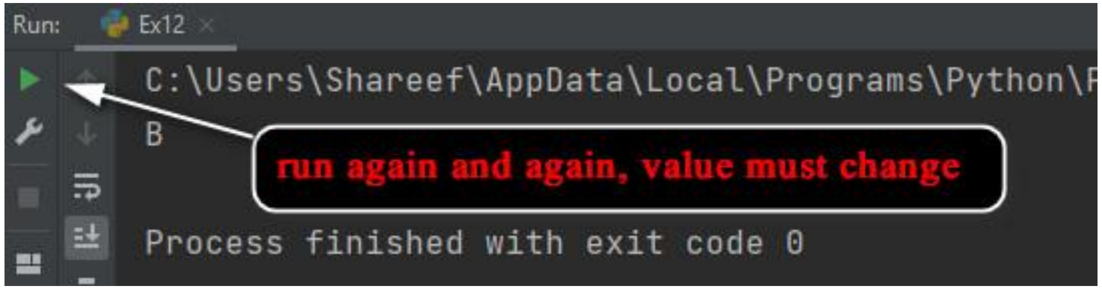
```
C:\Users\Shareef\AppData\Local\Programs\Python\Python37
15
-5
50
```



```
import random

print(max(2,1,3)) #3
print(min(2,1,3)) #1

print(max(2,1,3,-7)) #3
print(min(2,1,3,-7)) #-7

print(pow(4,2))#16
print(pow(4,2,2)) #base, exp, modulus #0

print(random.random()) #0.9679587134645916
```

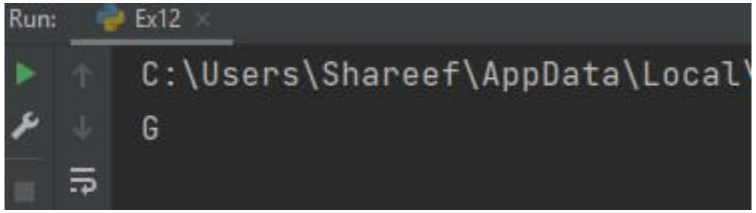


```python
import random

lst = ['A','B','C','D', 'E', 'F', 'G']

#Return a random element from the non-empty sequence seq. If seq is empty, raises IndexError.
print(random.choice(lst))
```

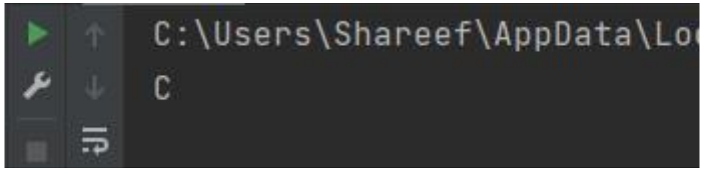


```
C:\Users\Shareef\AppData\Local\Programs\Python\P
B

Process finished with exit code 0
```

run again and again, value must change



```
C:\Users\Shareef\AppData\Local\
G
```



```
C:\Users\Shareef\AppData\Lo
C
```