

№0.1

File Edit Format Run Options Window Help

```
for i in range(-3,4):
    print(i,end=' ')
print()
for i in range(17,2,-2):
    print(i,end=' ')
print()
out = 2
for i in range(1,7):
    out *= 2
    print(out,end=' ')
print()
out = 243
print(out,end=' ')
for i in range(1,6):
    out /= 3
    print(out,end=' ')
```

Python 3.7.4 Shell

File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 (Intel)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/vil/0.py =====

```
-3 -2 -1 0 1 2 3
17 15 13 11 9 7 5 3
4 8 16 32 64 128
243 81.0 27.0 9.0 3.0 1.0
```

>>> |

№1

1.py - C:/vil/1.py (3.7.4)

File Edit Format Run Options Window Help

```
suma = 0
for i in range(13,32):
    if (i%1) == 0:
        suma += i
print(suma)
```

|

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\vil\1.py =====
418
>>> |
```

№2

```
2.py - C:/vil/2.py (3.7.4)
File Edit Format Run Options Window Help
col = {2,5,1,7,3,9,6}
dob = 1
for i in col:
    dob *= i
print(dob)
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\vil\2.py =====
11340
>>> |
```

№3

```
3.py - C:/vil/3.py (3.7.4)
File Edit Format Run Options Window Help
s = "мінімальна кількість слів"
print("len =", len(s))
print("кількість i =", len(s.split("i"))-1)
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\vil\3.py =====
len = 25
кількість i = 5
>>> |
```

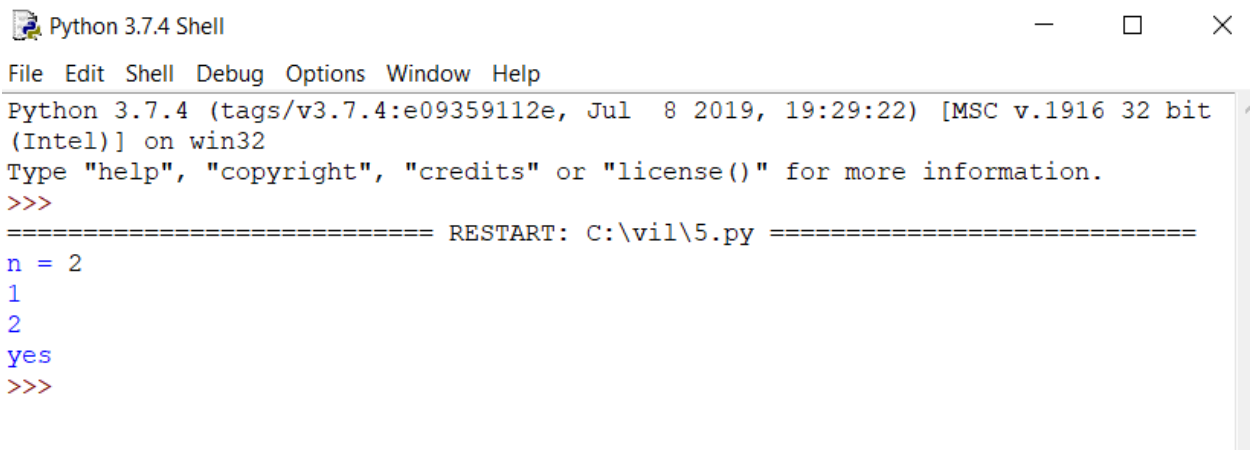
№4

```
4.py - C:/vil/4.py (3.7.4)
File Edit Format Run Options Window Help
f = lambda x: (x + 1)/(x**3)
for i in range(1,11):
    print("f(x) =", f(i))
|
```

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\vil\4.py =====
f(x) = 2.0
f(x) = 0.375
f(x) = 0.14814814814814814
f(x) = 0.078125
f(x) = 0.048
f(x) = 0.032407407407407406
f(x) = 0.023323615160349854
f(x) = 0.017578125
f(x) = 0.013717421124828532
f(x) = 0.011
>>> |
```

№5

```
File Edit Format Run Options Window Help
n = int(input("n = "))
suma = 0
for i in range(1,n+1):
    print(i)
    suma += i
if suma == (n*(n+1)/2): print("yes")
else: print("no")
|
```

A screenshot of a Python 3.7.4 Shell window. The title bar reads "Python 3.7.4 Shell" and includes standard window controls (minimize, maximize, close). The menu bar contains "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area shows the Python startup banner: "Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32". Below this is the instruction: "Type 'help', 'copyright', 'credits' or 'license()' for more information." followed by a red prompt ">>>". A separator line of equals signs indicates a restart, with the text "RESTART: C:\vil\5.py" in the center. Below the separator, the code "n = 2" is entered in blue, followed by the numbers "1" and "2" on separate lines, then the word "yes" in blue, and finally another red prompt ">>>".

```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\vil\5.py =====
n = 2
1
2
yes
>>>
```

6.py - C:/vil/6.py (3.7.4)

File Edit Format Run Options Window Help

```
f = 6
q = 0.5
prog = []
for i in range(1,5):
    if (f * q ** (i - 1)) >= 0.6:
        prog.append(f * q ** (i - 1))

print(prog)
print("S =", f * (1-q**len(prog))/(1-q))
|
```

Python 3.7.4 Shell

File Edit Shell Debug Options Window Help

Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/vil/6.py =====
[6.0, 3.0, 1.5, 0.75]
S = 11.25
>>>