

Python - ugrađene funkcije i rad sa datotekama

A series of horizontal lines in teal and light blue colors, of varying lengths, extending from the left edge of the slide towards the right, positioned below the title.

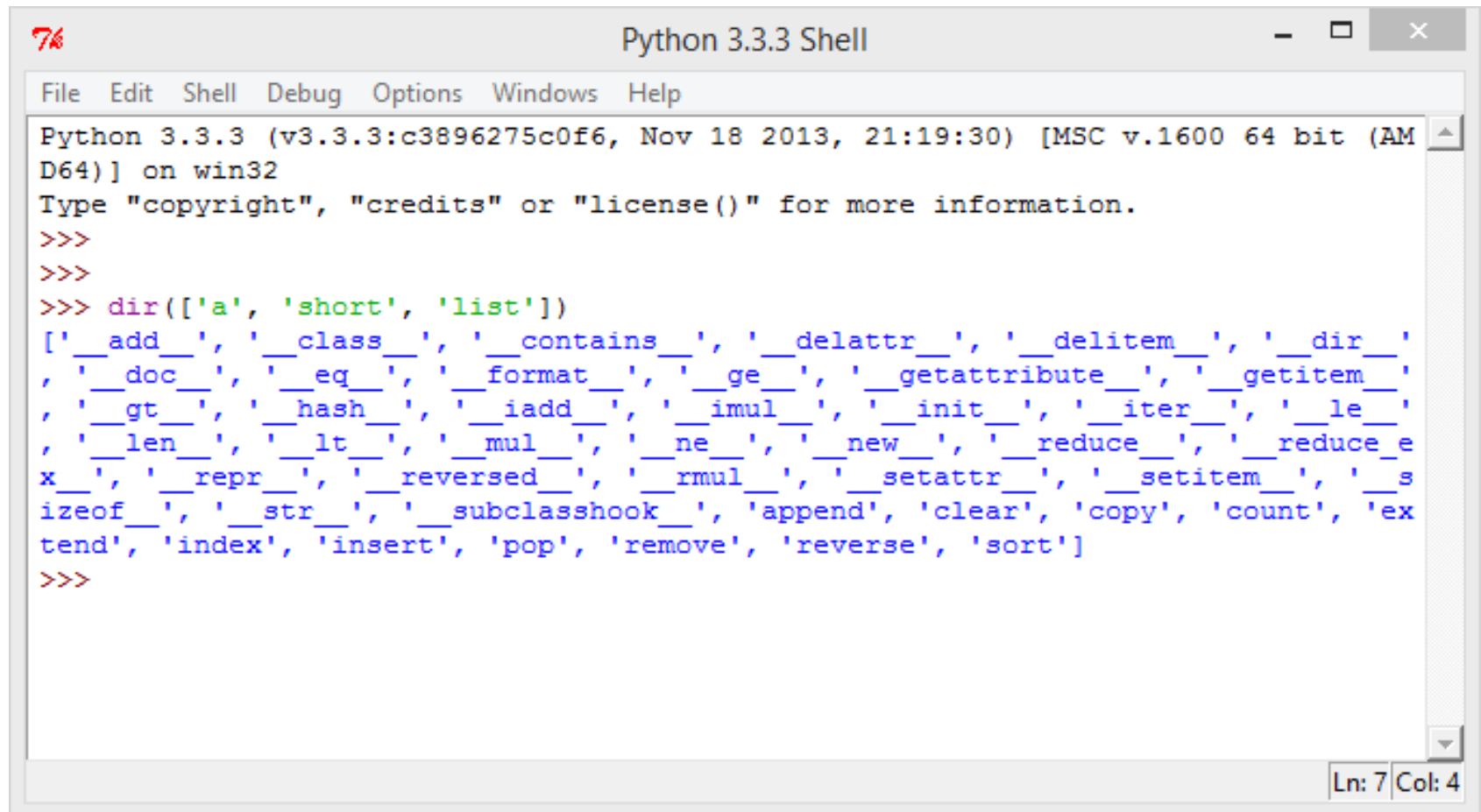
Ugrađene funkcije

- Pajton ima veliki broj programerskih alata, - ugrađene funkcije i module koji su napisani za korićenje. Ove funkcije omogućavaju mnogo lakše i brže pisanje programa.

Funkcija	Rezultat
<code>abs(-10)</code> –	10 - apsolutna vrednost
<code>print(bool(1))</code> <code>print(bool(12.5))</code> <code>print(bool(0))</code> <code>print(bool(None))</code> <code>print(bool("Zdravo svete"))</code>	True True False False True
<code>print(list(range(0, 30, 2)))</code>	[0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28]
<code>print(sum(lista_brojeva))</code>	zbir brojeva
<code>float("12"), int("12")</code>	12.0, 12 promena tipa podatka u float, int
<code>len(string)</code>	dužina stringa
<code>min([5, 4, 10, 30, 22])</code> <code>max([5, 4, 10, 30, 22])</code>	4 minimalni element liste 30 maksimalan element liste

dir()

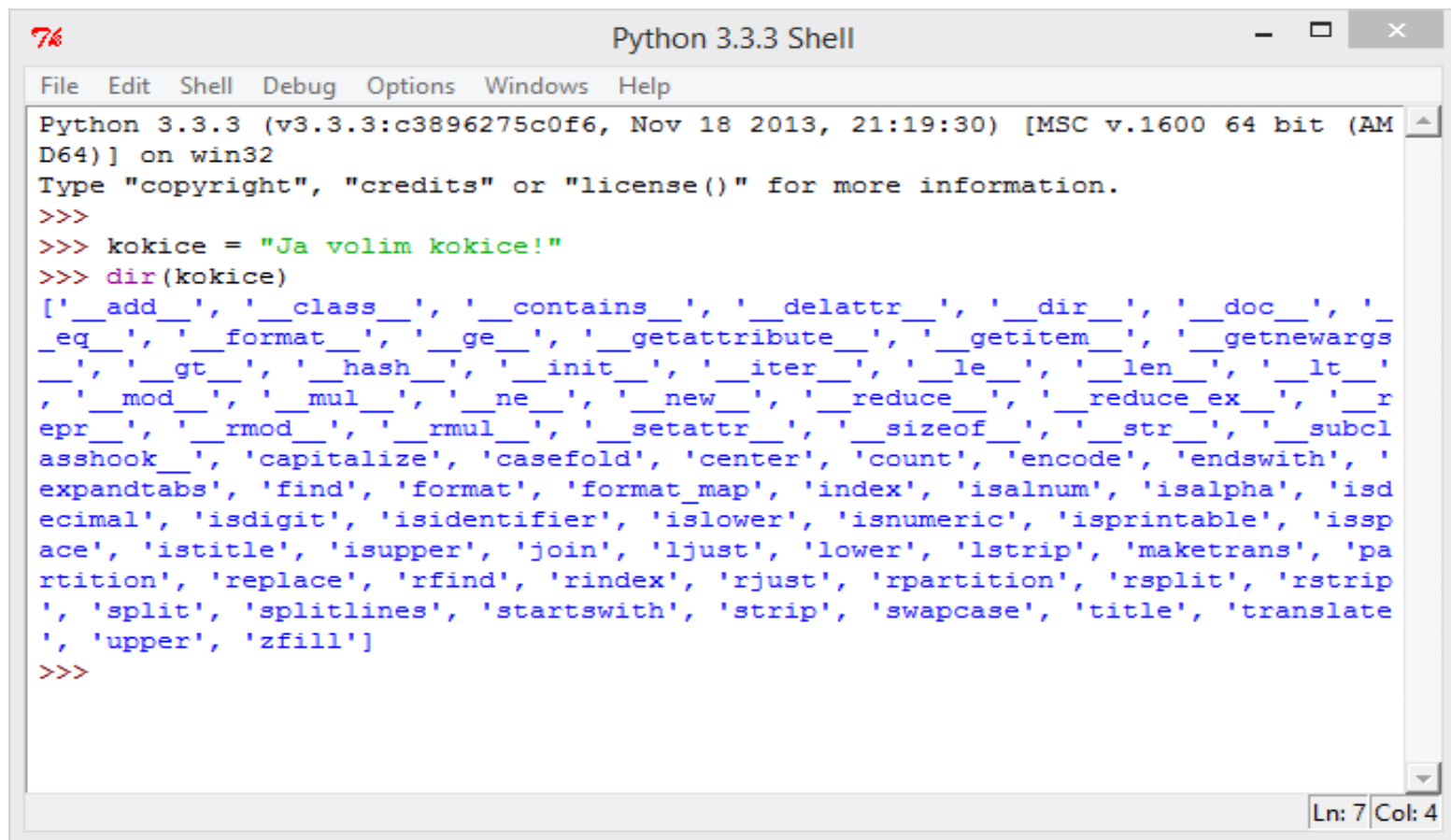
Dir funkcija listu metoda koje se mogu primeniti nad nekim tipom podatka.



```
Python 3.3.3 Shell
File Edit Shell Debug Options Windows Help
Python 3.3.3 (v3.3.3:c3896275c0f6, Nov 18 2013, 21:19:30) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
>>>
>>> dir(['a', 'short', 'list'])
['_add_', '__class__', '__contains__', '__delattr__', '__delitem__', '__dir__',
 '__doc__', '__eq__', '__format__', '__ge__', '__getattr__', '__getitem__',
 '__gt__', '__hash__', '__iadd__', '__imul__', '__init__', '__iter__', '__le__',
 '__len__', '__lt__', '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_e
x__', '__repr__', '__reversed__', '__rmul__', '__setattr__', '__setitem__', '__s
izeof__', '__str__', '__subclasshook__', 'append', 'clear', 'copy', 'count', 'ex
tend', 'index', 'insert', 'pop', 'remove', 'reverse', 'sort']
>>>
```

Ln: 7 Col: 4

dir()

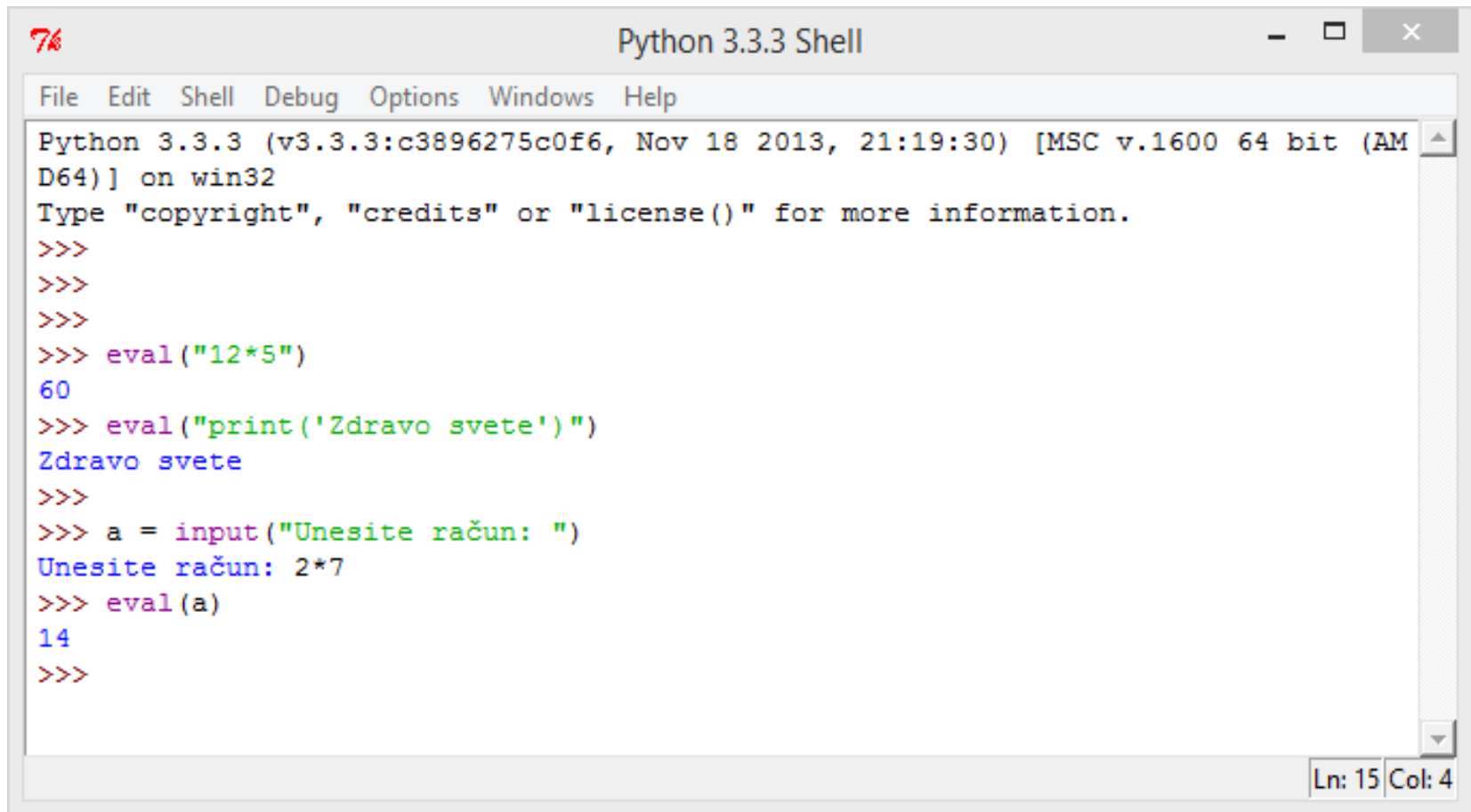


```
Python 3.3.3 Shell
File Edit Shell Debug Options Windows Help
Python 3.3.3 (v3.3.3:c3896275c0f6, Nov 18 2013, 21:19:30) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
>>> kokice = "Ja volim kokice!"
>>> dir(kokice)
['_add_', '__class__', '__contains__', '__delattr__', '__dir__', '__doc__', '__eq__', '__format__', '__ge__', '__getattribute__', '__getitem__', '__getnewargs__', '__gt__', '__hash__', '__init__', '__iter__', '__le__', '__len__', '__lt__', '__mod__', '__mul__', '__ne__', '__new__', '__reduce__', '__reduce_ex__', '__repr__', '__rmod__', '__rmul__', '__setattr__', '__sizeof__', '__str__', '__subclasshook__', 'capitalize', 'casefold', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find', 'format', 'format_map', 'index', 'isalnum', 'isalpha', 'isdecimal', 'isdigit', 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace', 'istitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans', 'partition', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition', 'rsplit', 'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title', 'translate', 'upper', 'zfill']
>>>
```

Ln: 7 Col: 4

eval()

- Eval funkcija uzima string kao parametar i izvršava preko python izraza.

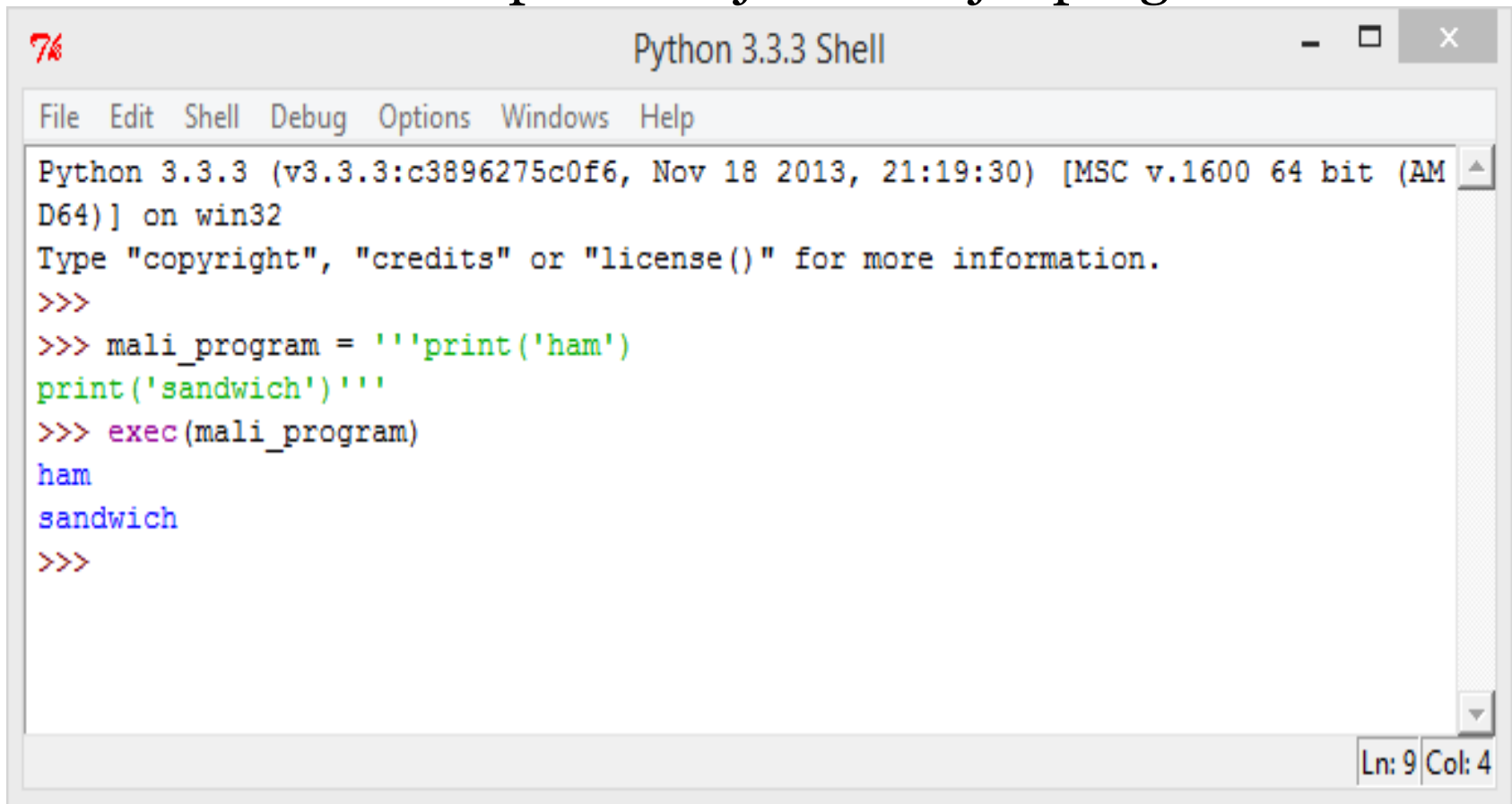


```
Python 3.3.3 Shell
File Edit Shell Debug Options Windows Help
Python 3.3.3 (v3.3.3:c3896275c0f6, Nov 18 2013, 21:19:30) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
>>>
>>>
>>> eval("12*5")
60
>>> eval("print('Zdravo svete')")
Zdravo svete
>>>
>>> a = input("Unesite račun: ")
Unesite račun: 2*7
>>> eval(a)
14
>>>
```

Ln: 15 Col: 4

exec()

- Exec je slična eval ugrađenoj funkciji, osim što je možete iskoristiti za pokretanje složenijih programa.



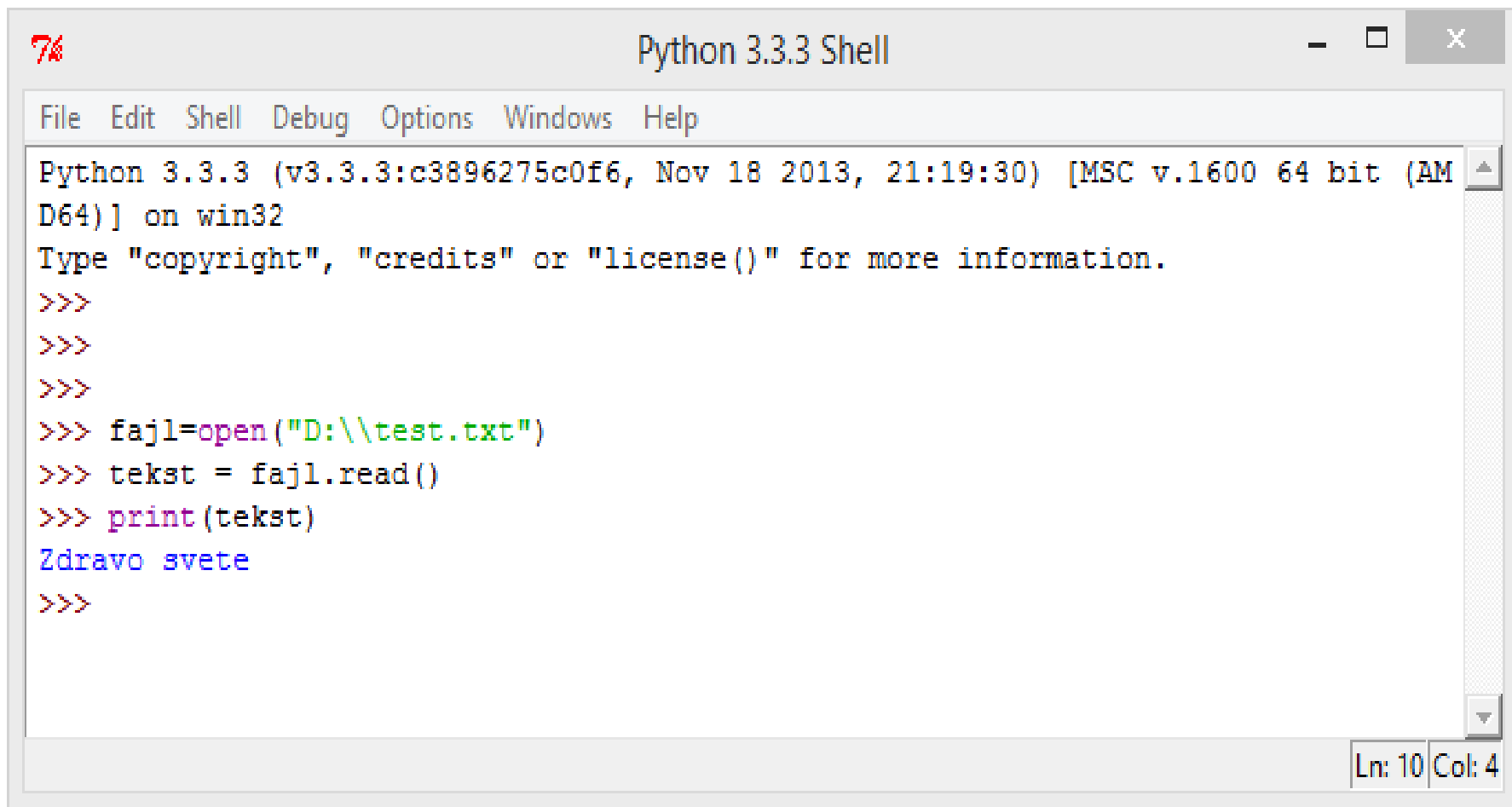
The screenshot shows a Python 3.3.3 Shell window with a menu bar (File, Edit, Shell, Debug, Options, Windows, Help) and a status bar (Ln: 9 Col: 4). The shell displays the following text:

```
Python 3.3.3 (v3.3.3:c3896275c0f6, Nov 18 2013, 21:19:30) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
>>> mali_program = '''print('ham')
print('sandwich')'''
>>> exec(mali_program)
ham
sandwich
>>>
```

Rad sa datotekama

- Pajton poseduje ugrađenu funkciju `open` koja otvara fajl i učitava sadržaj tog fajla. Funkciji se, u obliku stringa, prosleđuje putanja do fajla kao i naziv fajla koji želimo da otvorimo.

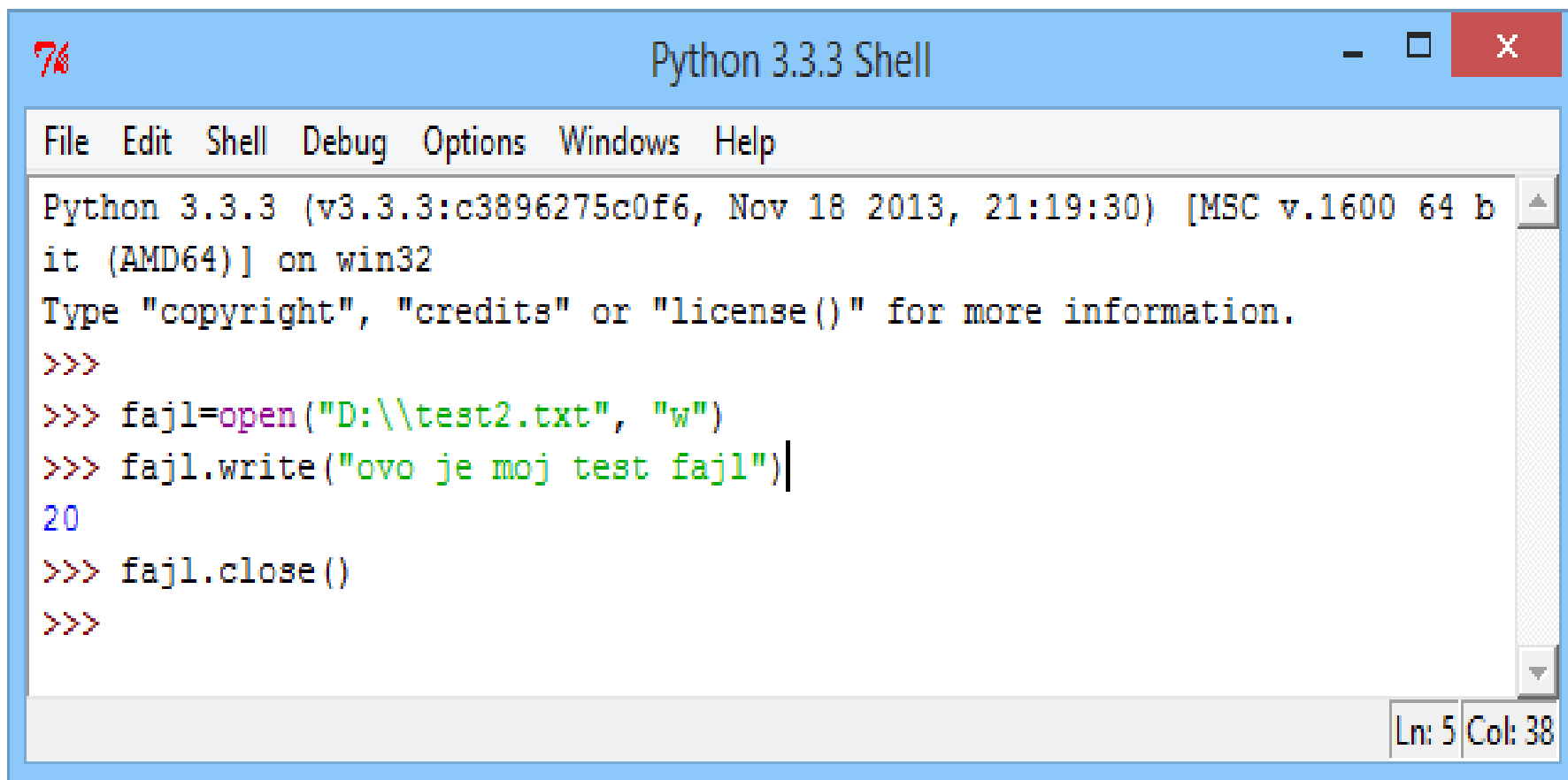
Rad sa datotekama

A screenshot of a Python 3.3.3 Shell window. The window has a title bar with a red icon, the text "Python 3.3.3 Shell", and standard window controls. Below the title bar is a menu bar with "File", "Edit", "Shell", "Debug", "Options", "Windows", and "Help". The main text area shows the Python interpreter's startup message, followed by three blank lines, and then a series of commands: opening a file named "test.txt" in write mode, reading its contents, and printing them. The output is "Zdravo svete". The status bar at the bottom right shows "Ln: 10 Col: 4".

```
Python 3.3.3 (v3.3.3:c3896275c0f6, Nov 18 2013, 21:19:30) [MSC v.1600 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
>>>
>>>
>>> fajl=open("D:\\test.txt")
>>> tekst = fajl.read()
>>> print(tekst)
Zdravo svete
>>>
```

Ln: 10 Col: 4

Rad sa datotekama



The image shows a screenshot of a Python 3.3.3 Shell window. The window has a blue title bar with the text "Python 3.3.3 Shell" and standard window controls (minimize, maximize, close). Below the title bar is a menu bar with options: File, Edit, Shell, Debug, Options, Windows, and Help. The main area of the window is a text editor displaying the following text:

```
Python 3.3.3 (v3.3.3:c3896275c0f6, Nov 18 2013, 21:19:30) [MSC v.1600 64 b  
it (AMD64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
>>> fajl=open("D:\\test2.txt", "w")  
>>> fajl.write("ovo je moj test fajl")  
20  
>>> fajl.close()  
>>>
```

At the bottom right of the window, there is a status bar showing "Ln: 5 Col: 38".

Zadatak 1

- Napisati program koji u datoteku upisuje ulaz sa tastature dok se ne unese reč kraj

Zadatak 2

- Napisati program koji će iz datoteka od odabranih reči odabrati jednu slučajnim izborom