

Assignment No. 6

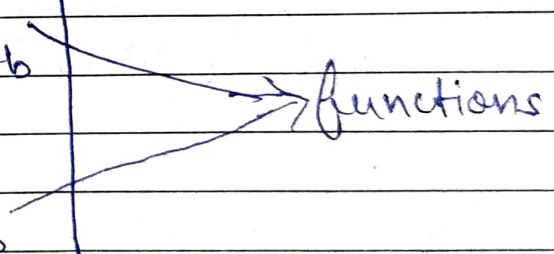
Q.4- What is Module? How it is created and used in Python?

Ans-

Module - It is a python program file which contains a python code including python functions, class or variables etc. This file is to be saved as ".py" extension. This is a runnable code file and can be implemented in other python program.

Creating a Module-

Calculation.py → module

<pre>def add(a+b): return a+b</pre>	 <p>functions</p>
<pre>def sub(a-b) return a-b</pre>	

Using / Importing Modules :-

"import" statement is used to do it.

- ① import module name
- ② import module-name as alias-name
- ③ from module-name import var1, var2, ...
- ④ from module-name import class1, class2, ...

- ⑤ from module-name import method1, method2, ..., method n.
- ⑥ from module name import fun-name as alias fun-name
- ⑦ from module-name import * ; it will import all functions, methods & objects at a time.

Note: Modules can import other modules.

Q - Explain sys module.

Ans -

Standard Module - sys

It provides functions and variables used to manipulate different parts of the python runtime environment.

e.g:

- ① sys.exit() → this causes the script to exit back to either the python console or the command prompt.
- ② Import sys
print(sys.version) → o/p → 3.6.9 (default)
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- ③ sys.maxsize → returns the largest integer a variable can take.
- ④ sys.path → It searches path for all python modules.