

## Assignment 6

1) What are keywords in python? using keyword library, print all the python keywords

→ keyword - special reserved words that have specific meaning and purpose and can't be used for anything but those specific purpose

keyword - None, false, await, else, import,

pass, break, except, in, raise, true, class, finally, is, return, and, continue, for, lambda, try, as, def, from, nonlocal, while, assert, del, global, not, with, async, elif, if, or, yield

2) What are the rules to create variable in python?

→ ① A variable name must start with a letter

② A variable name cannot start with a number

③ A variable name can only contain alpha-numeric characters

④ Variable name are case-sensitive

3) What are the standards and convention followed for the nomenclature of variable in python to improve code readability and maintainability?

→

4) what will happen if a keyword is used as a variable name?

→ we cannot use a keyword as a variable name, function name. they are used to define the syntax & structure of python language.

5) for what purpose def keyword is used

→ The def keyword is used to create a function.

6) what is the operation of this special character?

→ '\ ' = (Backslash) The separation in a file, path

7) give an example

→ ① Homogenous list  
`a = [12, 'hello']`

② Heterogenous set -

`myset = {'Hello', 'for', 10, 52.7, True}`  
`print(myset)`

③ Homogenous Tuple

⑧ Explain mutable & immutable data type with ex.  
→

Mutable Object      Immutable object

- ① A mutable object can be changed after it is created      ① An Immutable object cannot be changed after created

ex- list, set

eg tuple, int, float

- ② mutable object are useful when we need to change the size      ② Immutable object are best suitable when we are sure that we don't need to change them at any point in time

⑨ write a code create the give structure only for loop

```

      *
     * *
    * * *
   * * * *
  * * * * *
 * * * * *
* * * * *

```

→ rows = int(input("Enter number of rows:"))

k = 0

count = .

for i in range(1, rows + 1):

for space in range(1, (rows - i + 1):

Print(end = " ")

while k! = (2 \* i - 1):

Print(" \* ", end = " ")

k += 1

k = 0 Print()