Q.1. What are keywords in python? Using the keyword library, print all the python keywords.

A. Keywords are reserved words in Python which cannot be used as ordinary identifiers. They are used to define the syntax and structure of the python language. Key words are case sensitive.

import keyword

print (keyword.kwlist)

Q.2. What are the rules to create variables in python?

A. A variable is a named location which can be used to store data in the memory.

A variable can either start with a letter or underscore and are case sensitive

It cannot start with number however can contain numbers.

Q.3. What are the standards and conventions followed for the nomenclature of variables in

python to improve code readability and maintainability?

1. A variable can have lower case, upper case, underscore and numbers. However the name of the variable cannot start with a number

Q.4. What will happen if a keyword is used as a variable name?

A. We cannot use keyword as a variable name as both are case sensitive.

Q.5. For what purpose def keyword is used?

A. def keyword is used to define a function in python, there are pre-defined function and users can also create function use def keyword

Q.6. What is the operation of this special character ‘\’?

A. This is used to complete a statement, user can add multiple lines using ‘\’

Q.7. Give an example of the following conditions:

(i) Homogeneous list - It contains similar type of data – Banana, Apple, grapes

(ii) Heterogeneous set – It contains different set of data – Banana, books, cabbage, grapes

(iii) Homogeneous tuple – Tuples are not homogeneous but are heterogeneous, A list an be homogeneous

Q.8. Explain the mutable and immutable data types with proper explanation & examples.

Mutable- We can amend, add or delete the object any time after it has been created Ex: List, dictionary, set

Immutable- We cannot amend, add or delete the object post creation. Ex; Tuples, float, int

Q.9. Write a code to create the given structure using only for loop.

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#num\_rows = int(input(‘input number of rows in pyramind’))

num\_rows=5

for i in range(num\_rows):

for k in range(num\_rows-i,0,-1):

print('',end='')

for j in range(i+1):

if j==0:

print('\*', end='')

elif j>0:

print('\*\*', end='')

print("\n")

Q.10. Write a code to create the given structure using while loop.

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n=9

i=0

while n>0:

print(""\*i+"|"\*n)

i+=1

n-=2