20 May

Python Basic - 1

* 1. 1. What are keywords in python? Using the keyword library, print all the python keywords.
  2. **Ans1.** Thre are around 35 words are reserved by Python and those are called as
  3. Keywords like; True, False, def, if else, try, except etc.
  4. import keyword
  5. print(keyword.kwlist)
  6. 2. What are the rules to create variables in python?
  7. **Ans2.** There are few points which we need to take care while defining variables in python:
  8. **a.** Variables can be start with alphabet and can be combination of small letter, capital letter and numeric also can use underscore.
  9. **b.** Variable should not be start with numeric or special character.
  10. **c.** can not use keywords as a vairable name.
  11. 3. What are the standards and conventions followed for the nomenclature of variables in

python to improve code readability and maintainability?

**Ans3.** Always having try except block in code is a good practice. Follow the variable nomenclature while defining any variable like; don’t use keywords as a variable or functions names, use small and capital letter alphabates, numbers in variables but not at the starting, breake code into small pieces so that maintanance of code will be easy, comment must be proper so that anyone can easy understand the purpose of code.

* 1. 4. What will happen if a keyword is used as a variable name?
  2. **Ans4.** Will get error
  3. 5. For what purpose def keyword is used?
  4. **Ans5.** def is used to create functions like; def my\_function():
  5. 6. What is the operation of this special character ‘\’?
  6. **Ans6.** ‘\’ is a special character used for adding space.
  7. 7. Give an example of the following conditions:

1. Homogeneous list
2. Heterogeneous set
3. Homogeneous tuple

**Ans7.** Homogeneous list :- my\_list=[1,2,3,4,5]

Heterogeneous set :- my\_set={1,’one’,1.2}

Homogeneous tuple :- my\_tuple=(1,2,3,’Four’)

* 1. 8. Explain the mutable and immutable data types with proper explanation & examples.
  2. **Ans8.**  Mutable are those value can be change over the time or run time but immutable are those whose value can not change after defining it. Like lists are mutable, the value of list can be change at any time but string is immutable means its value can not be change.
  3. 9. Write a code to create the given structure using only for loop.

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* 1. **Ans9.** Here is the code:
  2. n = 5
  3. for i in range(1, n+1):
  4. for j in range(n - i):
  5. print(' ', end='')
  6. for k in range(2 \* i - 1):
  7. print('\*', end='')
  8. print()
  9. 10. Write a code to create the given structure using while loop.

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* 1. **Ans10.** Here is the code:
  2. n = 5
  3. for i in range(1, n+1):
  4. for j in range(i-1):
  5. print(' ', end='')
  6. for j in range(2\*(n-i)+1):
  7. print('|', end='')
  8. print()