20th May Assignment

1. Keywords are special purpose reserved words which has a particular purpose and cant be used for other purposes

from keyword import kwlist

print(keyword.kwlist)

1. A variable name must start with a letter or the underscore character

A variable name cannot start with a number

A variable name can only contain alpha-numeric characters and underscores (A-z, 0-9, and \_ )

1. a. Variable names should be descriptive, that is they should indicate their use through their names.

b. Though allowed, variables should not start with underscore.

c. Never use the characters ‘l’ (lowercase letter el), ‘O’ (uppercase letter oh), or ‘I’ (uppercase letter eye) as single character variable names. As, these characters are indistinguishable from the numerals one and zero

d. lowercase, with words separated by underscores should be used to improve readability. Mixed case can also be used for this purpose

1. It will throw syntax error
2. def is used to define functions
3. ‘\’ it is a special character which is to represent tab character and newline character as \t and \n
4. 1. List: [”Python Basic”, “Abhay”, ”Enjoying Course”, ”Python Basic”]. Duplicates allowed here.

2. Set: {“Thanks”, “For”, “Course”, 1, 2.3}

3. Tupple: (123, 234, 345, 456, 123)

1. Mutable data types are those which can be modified in the program which means we can we can change, add, and remove items. Immutable are those which can’t be modified. For ex: List is mutable while tupple is immutable

Code:

list1=["Hare", "Ram", "Jay Shree", "Krishna"]

print(list1)

list1.insert(4,"Hari hari")

print(list1)

Output for code

['Hare', 'Ram', 'Jay Shree', 'Krishna']

['Hare', 'Ram', 'Jay Shree', 'Krishna', 'Hari hari']

tup1=("Hare", "Ram", "Jay Shree", "Krishna")

print(tup1)

list1.insert(4,"Hari hari")

print(tup1)

Output for code

('Hare', 'Ram', 'Jay Shree', 'Krishna')

('Hare', 'Ram', 'Jay Shree', 'Krishna')

So here we can see in a list a new item is added while in tupple item could not be added

1. Code:

rows = 5

k = 0

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()

1. Code

rows = 6

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

for space in range(0, rows-i):

print(" ", end="")

for j in range(i, 2\*i-1):

print("|", end="")

for j in range(1, i-1):

print("|", end="")

print()