```
Q.1 Create one variable containing following type of data:
(i) string
(ii) list
(iii) float
(iv) tuple
Ans.
# string variable = ("abc123" "Hello World" "Hello, what is your name?")
# list = [1,2,3,4,5,10]
# floating data = (0.125,10.29)
# tuple data
         tuples are used to store multiple items in a single variable.
thistuple = ("apple", "banana", "cherry")
print(thistuple)
Q2. Given are some following variables containing data:
(i) var1 = ' '
(ii) var2 = '[ DS, ML, Python]'
(iii) var3 = [ 'DS', 'ML', 'Python']
(iv) var 4 = 1.
```

What will be the data type of the above given variable.

Ans.

```
# var1 = ' string data
# var2 = '[ DS, ML, Python]' this is a list data
# var3 = [ 'DS', 'ML', 'Python'] this is list data
# var4 = 1. this is integer data
```

Q3. Explain the use of the following operators using an example:

```
# / use for division
        x = 10
Ex.
        Y = 2
        print(x / y)
        10/2 = 5
# % use for modules
Ex.
        x = 5
        Y = 2
        print( x \% y) = 1
```

```
# // floor division
Ex. x = 15
  Y = 2
        X //y = 7
# ** exponentiation
        X = 2
Ex
        Y = 5
        print(x^{**}y) = 32
        2*2*2*2*2
Q4. Create a list of length 10 of your choice containing multiple types of data. Using for loop print the
element and its data type.
# l = [1,"school","pw skill",98.5,2,3,4,"java",22,"class"]
  for i in 1:
        print(i)
        print (type(i))
Q5. Using a while loop, verify if the number A is purely divisible by number B and if so then how many times
it can be divisible.
# a = int(input())
b = int(input())
 c = 0
If (a/b == 0:
        while(a/b >= b and type (a/b)==int):
                c+=1
                a/=b
        c
else:
        print("not divisible")
Q6. Create a list containing 25 int type data. Using for loop and if-else condition print if the element is
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divisible by 3 or not.

l1=[] l2=[]

1 = [1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25]