Python Lab selvo: 9 19895A1210 m. Jaya chandra laxing code: B17112206 IT-C 1 Aim! write a function ball-collide that takes two balls as paxameters and computes if they are colliding, your function should between a Boolean sepassenting whether as not the balls are colliding. Program :print ('start') impost math def ball-collide (x1, 41, 81, 82, 42, 82): distance = math. sqxt- ((x 2-x1)**2+(42-41)* *2) Sum - sadius = x1+x2 centse = distance/2 if centre < = sum - radius: SURT MEUTER schoon False.

expected output:

ball-collide (1,2,3,4,5,6)

Txue
ball-collide (13, 14,1,24,25,1)

false.

```
setno! 9
   Python Lab
                                                                                      19895A1210
                                                                                    M. Jaya chandra vaxma
code: BI7/172206 IT-C
                                                                    (7)
             white a Program combine-lists that combines flow
2) Aim!
                Eists into a dictionally.
  rescription:

Python offers a songe of compound data types

often referred to as requence list— is one of

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the most— exequently. Used and very versalite

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data type used in python In python The alements.

data type used in placing all The alements.

a List— is exected by placing all the and They

inside a square bracket-C). Separated by commas

inside a square homber of it me and They

and be of different— types.
  Program !-
                 Li=[]
                  L2=[]
                   Dictionary = & 3
                    n= int (input ("Entex the value"))
                      Pos i in sange (n) ("Enter The 3 names;")
name = input ("Enter The 3 names;")
                                  L1. append (names)
                                 Salaxies = int (input ('Entex the 3 salaxies:1))
                       Pos is in sange (n):
                                      point (" Names List is ", LI)
                                    12. append (salaxies)
                                       pxint (" salaxy List- is.", L2)
                                          fox 1,1 in Zip (L1, L2).
                                                        Dictionary [i] = j
                         Print (Dictionary)
```

code: BIT172206 IT-C

(3)

Expected output!

Enter the value ? names! Jaya

Enter the 2 names! Jaya

Enter the 2 names! varma

Enter the 2 names! varma

Enter the 2 salaxies! looo

Enter the 2 salaxies! 2000

Enter the 2 salaxies! 2000

Enter the 2 salaxies! 2000

Salary List is ["looo", 2000]

Salary List is ["looo", 2000]

Salary List is ["looo", varma! 2000]



```
Clear
                                                                         Shell
                                                                Run
main.py
                                                                        enter the value2
 1 L1=[]
                                                                        enter the name: jaya
 2 L2=[]
                                                                        enter the name:varma
 3 Dictionary={}
                                                                        enter the salarie:1000
 4 n=int(input('enter the value'))
                                                                        enter the salarie:2000
 5 - for i in range(n):
                                                                        name List is : ['jaya', 'varma']
        name = input('enter the name:')
                                                                        salary List is : [1000, 2000]
        L1.append(name)
                                                                        {'jaya': 1000, 'varma': 2000}
 8 - for i in range(n):
                                                                        >
        salaries = int(input('enter the salarie:'))
        L2.append(salaries)
11 print('name List is :',L1)
    print('salary List is :',L2)
13 - for 1, j in zip(L1,L2):
          Dictionary[i]=j
15 print(Dictionary)
```