DISTANCE-BETWEEN-TWO-POINTS

AIM:

To write a python program to find the distance between two 2 points

ALGORITHM:

Step 1: import math module using 'import math' statement

Step 2: substitute x1 and y1 values in a list

Step 3: substitute x2 and y2 values in another list

Step 4: Substitute the values in the distance formula and assign the distance value to a variable after using math module's square root function to find the distance $d=\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$

Step 5: print the distance and round off to 2 decimal points using '{'2f}.'

PROGRAM:

```
#Program to find the distance between two points.
#Developed by: ponguru aasrith sairam
#RegisterNumber: 23007809
import math as m
lst1=[10,6]
lst2=[4,2]
distance=m.sqrt(((lst2[0]-lst1[0])**2)+((lst2[1]-lst1[1])**2))
print("{:.2f}".format(distance))
```

OUTPUT:

$d=\sqrt{(x_2-x_1)^2+(y_2-y_1)^2}$

Answer: (penalty regime: 0 %)

Reset answer

```
#Program to find the distance between two points.
#Developed by: ponguru aasrith sairam
#RegisterNumber: 23007809
import math as m
lst1=[10,6]
lst2=[4,2]
distance=m.sqrt(((lst2[0]-lst1[0])**2)+((lst2[1]-lst1[1])**2))
print("{:.2f}".format(distance))
```

	Expected	Got	
✔	7.21	7.21	✔

Passed all tests! ✔

RESULT:

Thus distance between 2 points is obtained