

This is problem to convert all the negative coordinates to a positive coordinates;
The agenda is to get all the coordinates in 0 or positive values keeping the relative distance same;
We can add or delete any number from the coordinates ; however graph should not be changed;

Input: [(1,-2), (-2, 4), (-1,-1),(-8, -3), (0, 4), (10,-3)]
Output : [(9,6), (6, 12), (7,7),(0, 5), (8, 12), (18,5)]

ANS:

```
def convert_to_positive_coordinates(points):
    min_x = min(point[0] for point in points)
    min_y = min(point[1] for point in points)

    shifted_points = [(point[0] - min_x, point[1] - min_y) for point in points]
    return shifted_points

if __name__ == "__main__":
    input_points = [(1, -2), (-2, 4), (-1, -1), (-8, -3), (0, 4), (10, -3)]
    output_points = convert_to_positive_coordinates(input_points)
    print("Input:", input_points)
    print("Output:", output_points)
```

OUTPUT:

```
p.py > ...
1 def convert_to_positive_coordinates(points):
2     min_x = min(point[0] for point in points)
3     min_y = min(point[1] for point in points)
4
5     shifted_points = [(point[0] - min_x, point[1] - min_y) for point in points]
6     return shifted_points
7
8 if __name__ == "__main__":
9     input_points = [(1, -2), (-2, 4), (-1, -1), (-8, -3), (0, 4), (10, -3)]
10    output_points = convert_to_positive_coordinates(input_points)
11    print("Input:", input_points)
12    print("Output:", output_points)
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\shabnam\Documents\Pace Wisdom\pace> c:: cd 'c:\Users\shabnam\Documents\Pace Wisdom\pace'
9\python.exe' 'c:\Users\shabnam\Documents\Pace Wisdom\pace\p.py'
Input: [(1, -2), (-2, 4), (-1, -1), (-8, -3), (0, 4), (10, -3)]
Output: [(9, 6), (6, 12), (7, 7), (0, 5), (8, 12), (18, 5)]
PS C:\Users\shabnam\Documents\Pace Wisdom\pace>
```