

Automation isn't just about speed; it's also about **ENSURING CONSISTENCY.**



David DiCocco QA Engineer

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```
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       main.py
                                                                        Run
                                                                                  Output
                                                                                                                                                  Clear
       1 import math
                                                                                Closest pair: (1, 2) - (3, 1) Minimum distance: 2.23606797749979
R
       2 def distance(point1, point2):
              return math.sqrt((point1[0] - point2[0]) ** 2 + (point1[1] -
                                                                                === Code Execution Successful ===
       3
                  point2[1]) ** 2)
4 def closest pair(points):
              min_distance = float('inf')
       5
5
              closest_points = (None, None)
       6
              for i in range(len(points)):
       7 -
                  for j in range(i + 1, len(points)):
       8 -
                      dist = distance(points[i], points[j])
       9
0
                      if dist < min_distance:</pre>
       10
                          min_distance = dist
      11
      12
                          closest_points = (points[i], points[j])
0
              return closest_points, min_distance
       13
          points = [(1, 2), (4, 5), (7, 8), (3, 1)]
0
      15 closest_points, min_distance = closest_pair(points)
      16 print(f"Closest pair: {closest_points[0]} - {closest_points[1]}
              Minimum distance: {min_distance}")
JS
      17
GO
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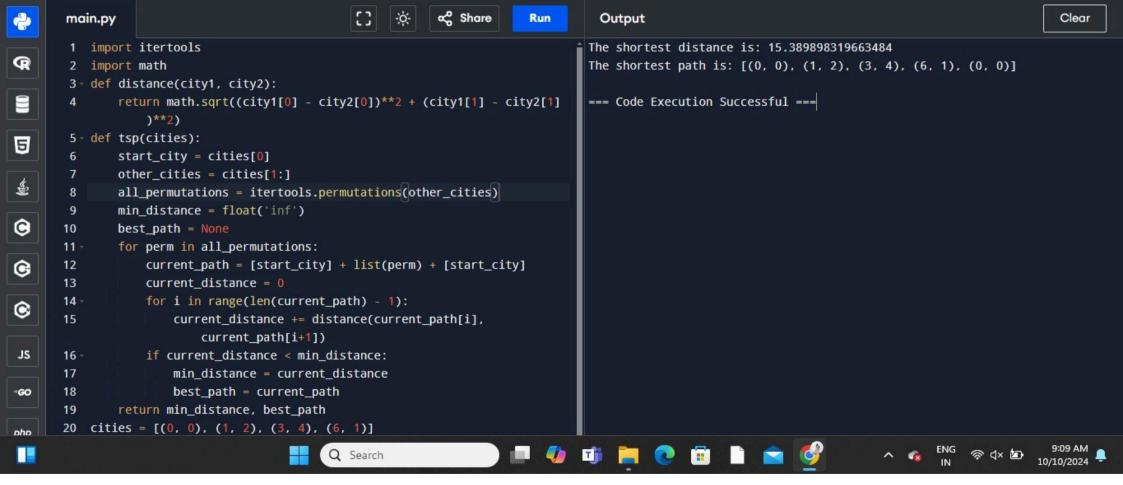
JS

Python Online Compiler

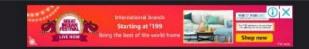
```
-o-
                                                         ∝ Share
                                                                                Output
                                                                                                                                                 Clear
     main.py
                                                                       Run
      1 def orientation(p, q, r):
                                                                               Convex Hull: [(1, 1), (4, 6), (8, 1), (0, 0), (3, 3)]
             return (q[1] - p[1]) * (r[0] - q[0]) - (q[0] - p[0]) * (r[1] -
                 q[1])
                                                                               === Code Execution Successful ===
      3 def convex_hull(points):
             n = len(points)
             if n < 3:
      5
                 return []
             hull = []
             for i in range(n):
      8 -
      9
                 while len(hull) >= 2 and orientation(hull[-2], hull[-1],
                    points[i]) <= 0:
                    hull.pop()
     10
     11
                 hull.append(points[i])
             return hull
     12
         points = [(1, 1), (4, 6), (8, 1), (0, 0), (3, 3)]
         hull = convex_hull(points)
     15 print("Convex Hull:", hull)
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                                          Q Search
```

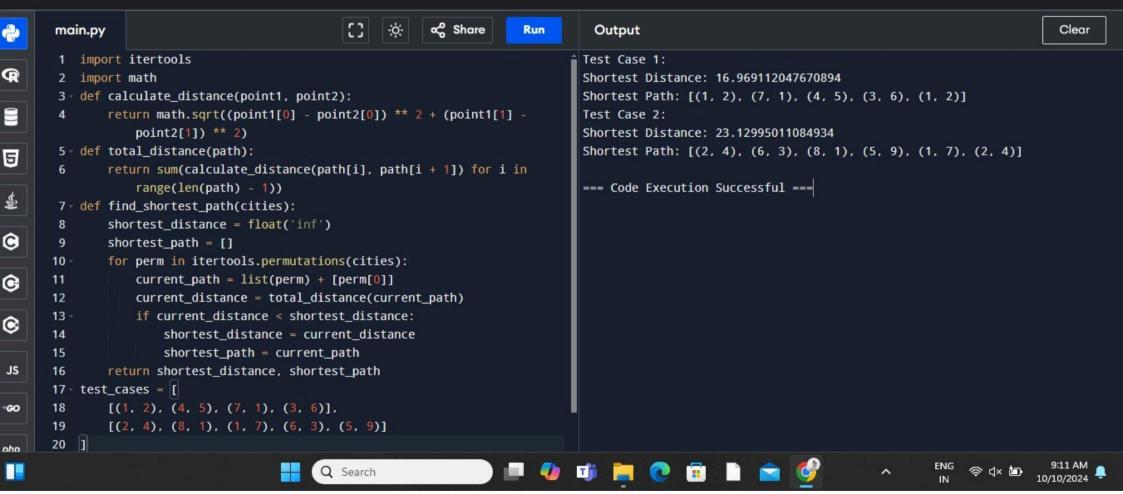
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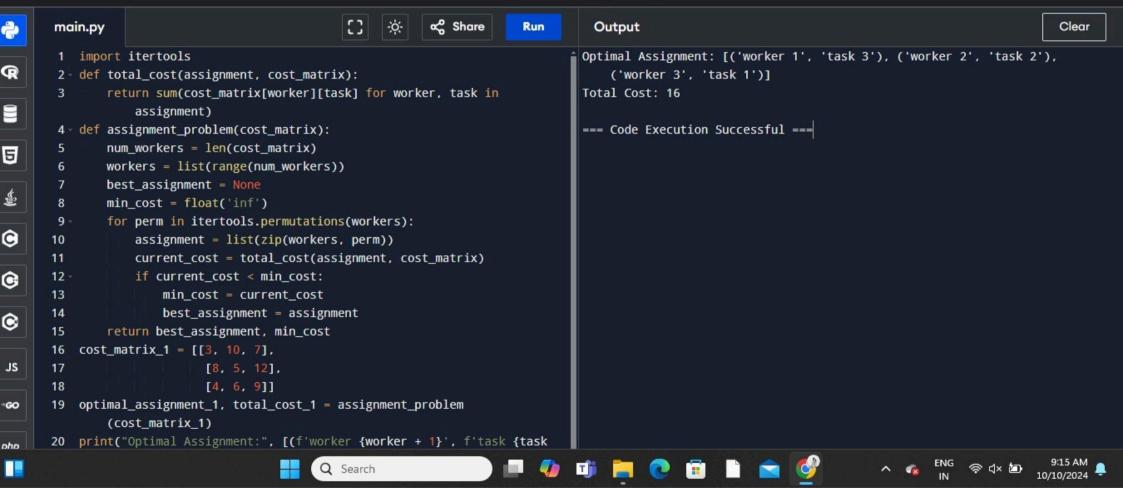
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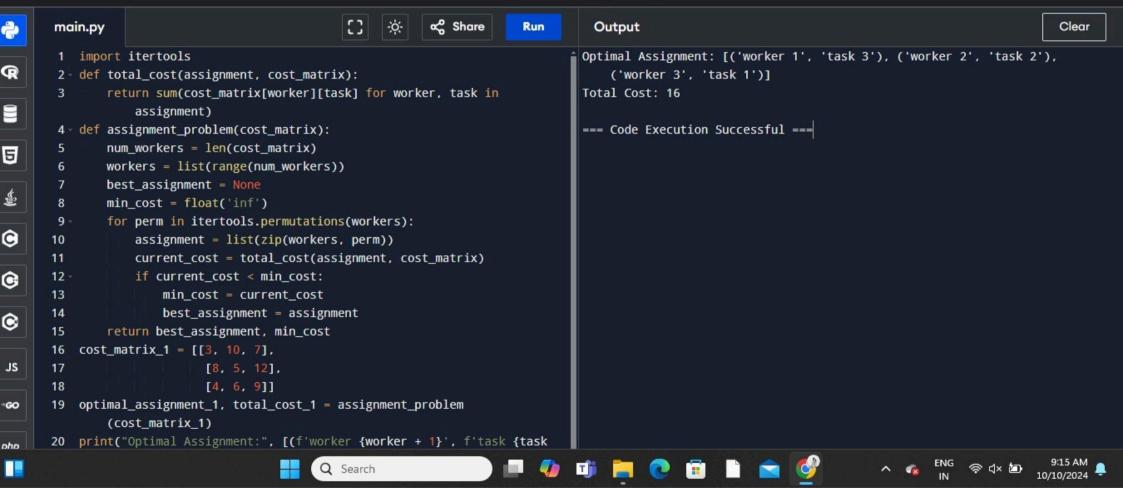
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