

Z.H.C.E.T., Aligarh Muslim University – Aligarh

Advanced Computing Lab

(COC 3960)

EXPERIMENT R3

Submitted to: **Dr Ash Mohammad Abbas**

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Faculty No.: 17 COB **085**

Enrolment No.: GJ 7718

Serial No.: **24**

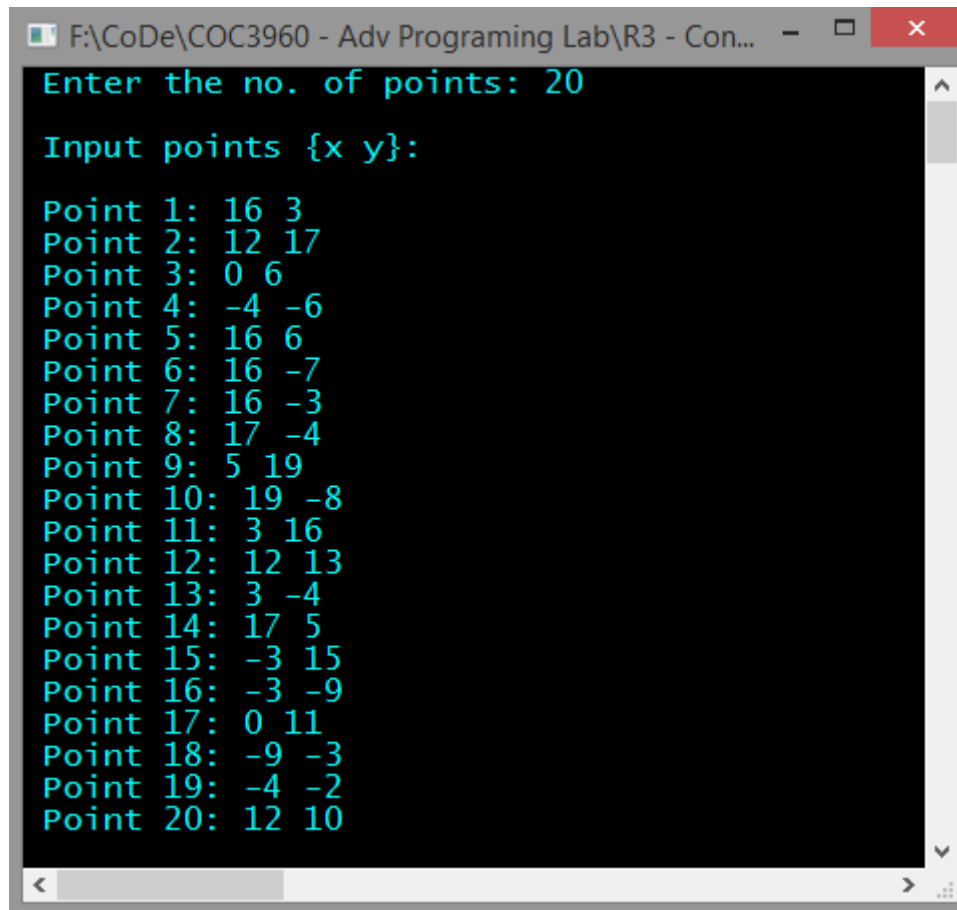
Class: B. Tech. (A3CO)

Experiment R3: Write a program to find the Convex Hull of a set of points.

Sample Input:

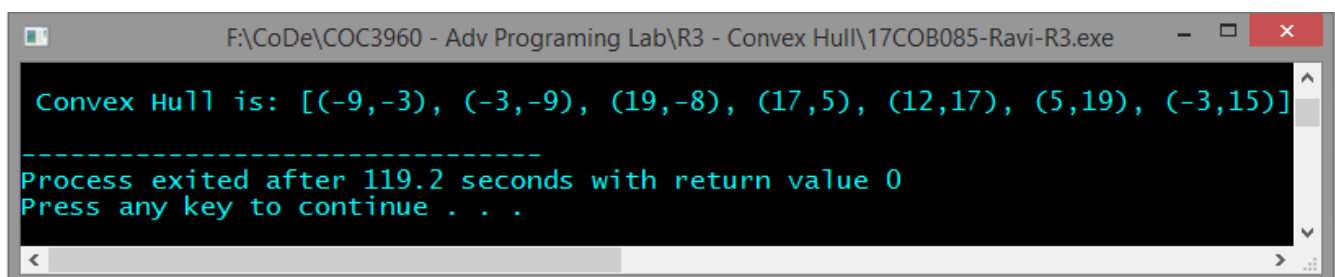
Below is a sample set containing 20 points:

{16, 3}, {12, 17}, {0, 6}, {-4, -6}, {16, 6}, {16, -7}, {16, -3}, {17, -4}, {5, 19}, {19, -8},
{3, 16}, {12, 13}, {3, -4}, {17, 5}, {-3, 15}, {-3, -9}, {0, 11}, {-9, -3}, {-4, -2}, {12, 10}



```
F:\CoDe\COC3960 - Adv Programing Lab\R3 - Con...
Enter the no. of points: 20
Input points {x y}:
Point 1: 16 3
Point 2: 12 17
Point 3: 0 6
Point 4: -4 -6
Point 5: 16 6
Point 6: 16 -7
Point 7: 16 -3
Point 8: 17 -4
Point 9: 5 19
Point 10: 19 -8
Point 11: 3 16
Point 12: 12 13
Point 13: 3 -4
Point 14: 17 5
Point 15: -3 15
Point 16: -3 -9
Point 17: 0 11
Point 18: -9 -3
Point 19: -4 -2
Point 20: 12 10
```

Sample Output:



```
F:\CoDe\COC3960 - Adv Programing Lab\R3 - Convex Hull\17COB085-Ravi-R3.exe
Convex Hull is: [(-9,-3), (-3,-9), (19,-8), (17,5), (12,17), (5,19), (-3,15)]
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Process exited after 119.2 seconds with return value 0
Press any key to continue . . .
```
