Memory Allocation Assignment

Name : Aya Ahmed Mohamed

Section :1

BN : 33743

Name : Aya Sayed Fouad

Section : 1

BN : 33745

MANUAL

1)Enter no of Holes.

2)Enter Details(Starting Address , Hole Size) for the first Hole and PRESS Add Hole button .

3) Repeat step (2) foe each Hole .

4)Select the Algorithm (First Fit , Best Fit).

5) Enter no of Processes.

6) Enter Details(Process Name, Process Size) for the first Process and PRESS Allocate Process button.

7)Repeat step (7) for each Process .

8)Press Run button .

9)Enter the name of process to be de-allocated then Press De-Allocate .

NOTE

1)To try another algorithm press Restart button and repeat the steps again .

2)U can De-Allocate any process if u allocate it before at any time and press Run to show the change in Memory.

3)If the size of a process can't fit any hole, COMPACTION will be occurred .

4)DON'T edit the data in tables .

5)U can press RUN any time to show the OUTPUT in the table and chart .

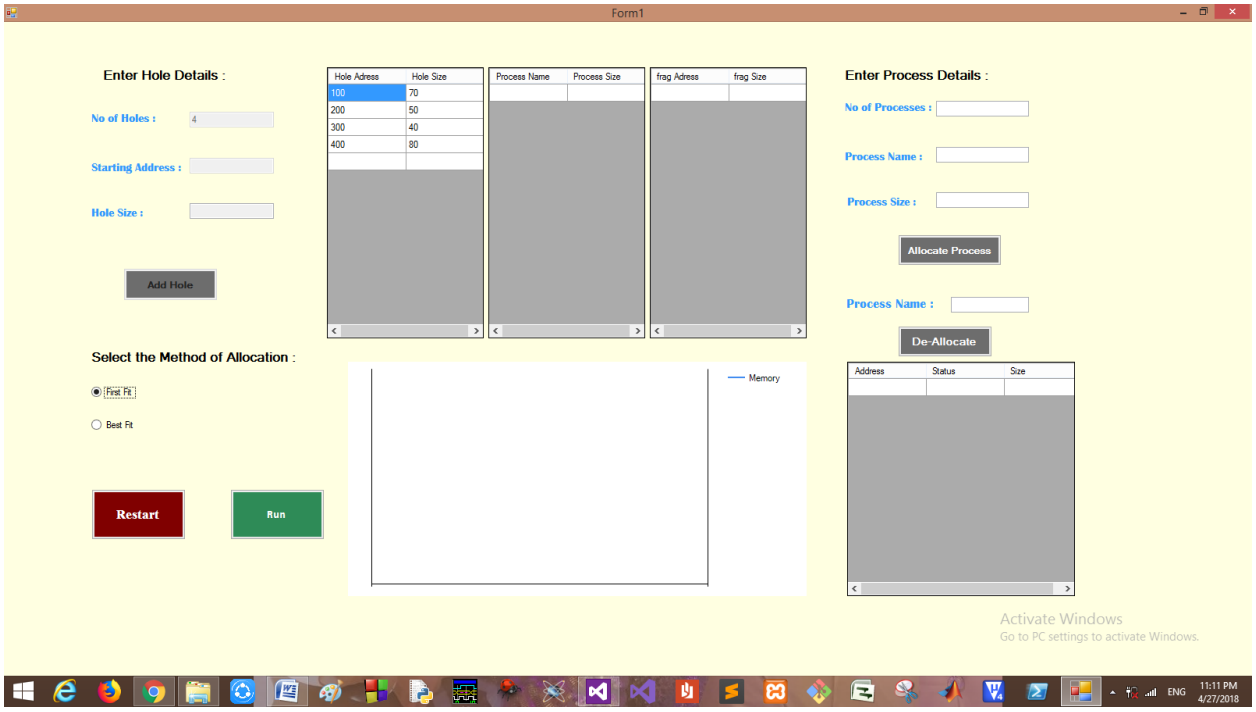
SNAPSHOTS OF OUTPUT

1)First Fit

Example :

1)Allocate the holes .

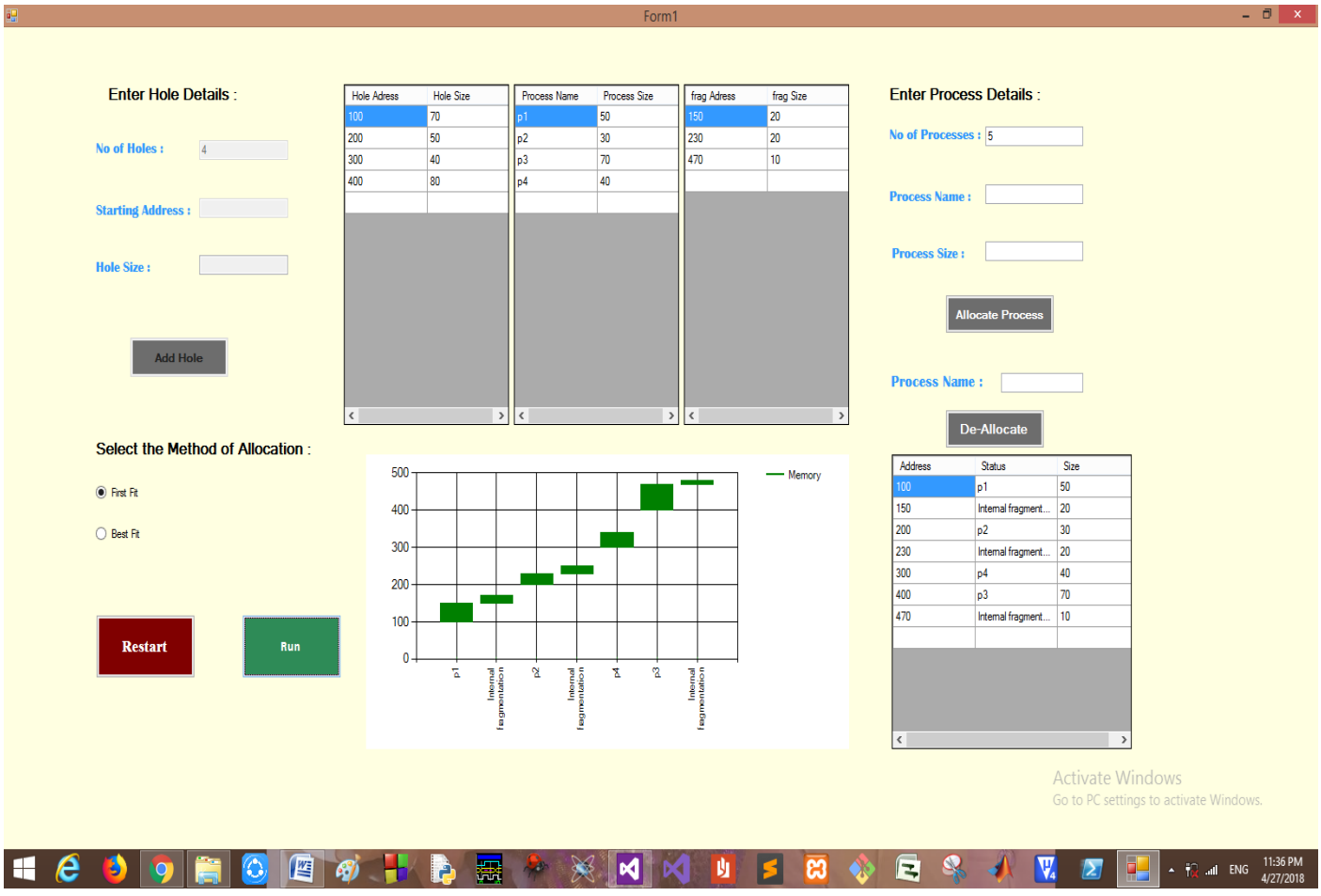
2)Select the type of allocation .



3)Enter number of processes and allocate them .

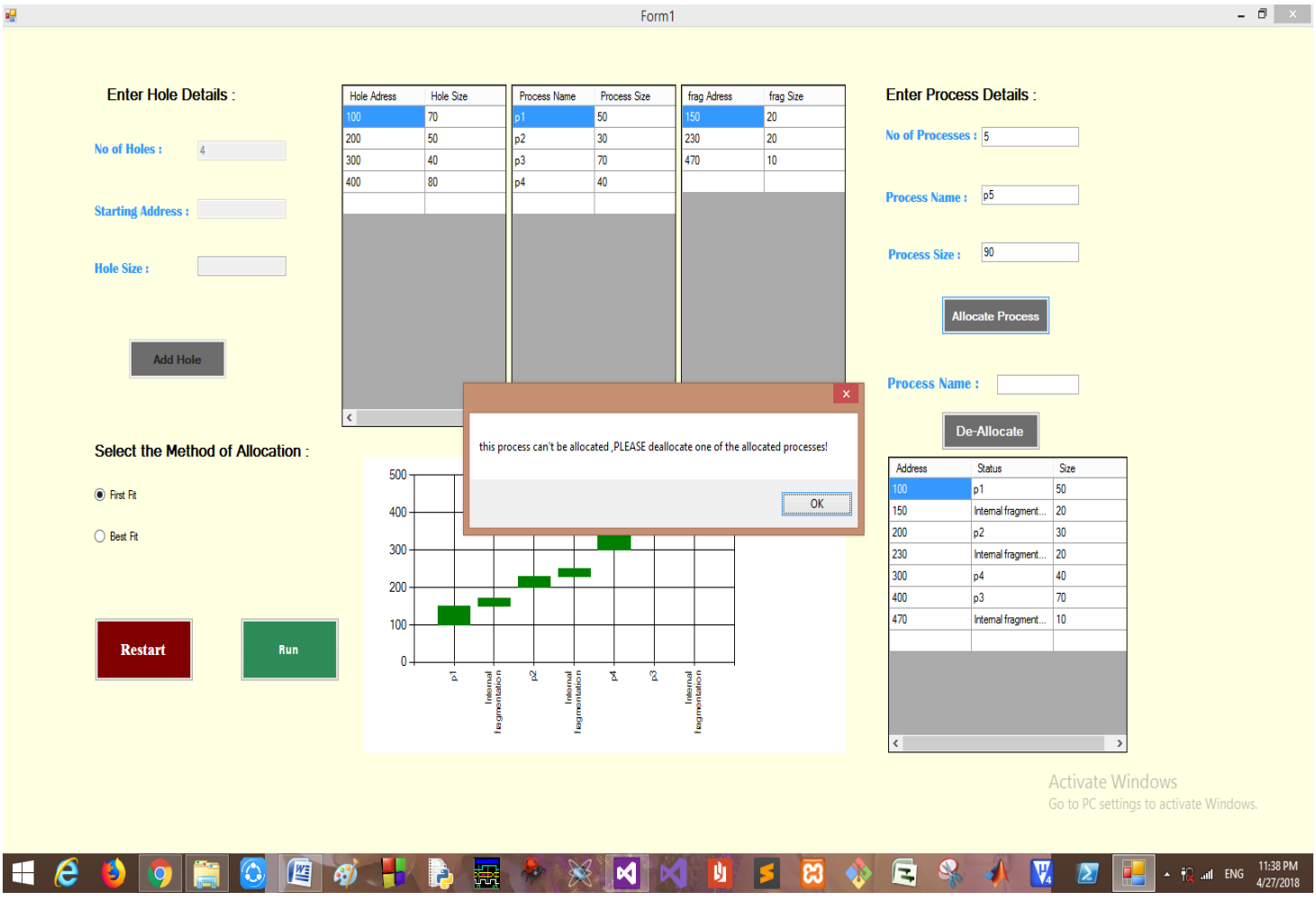
Note :(here I allocate 4 processes)

4)Press RUN .

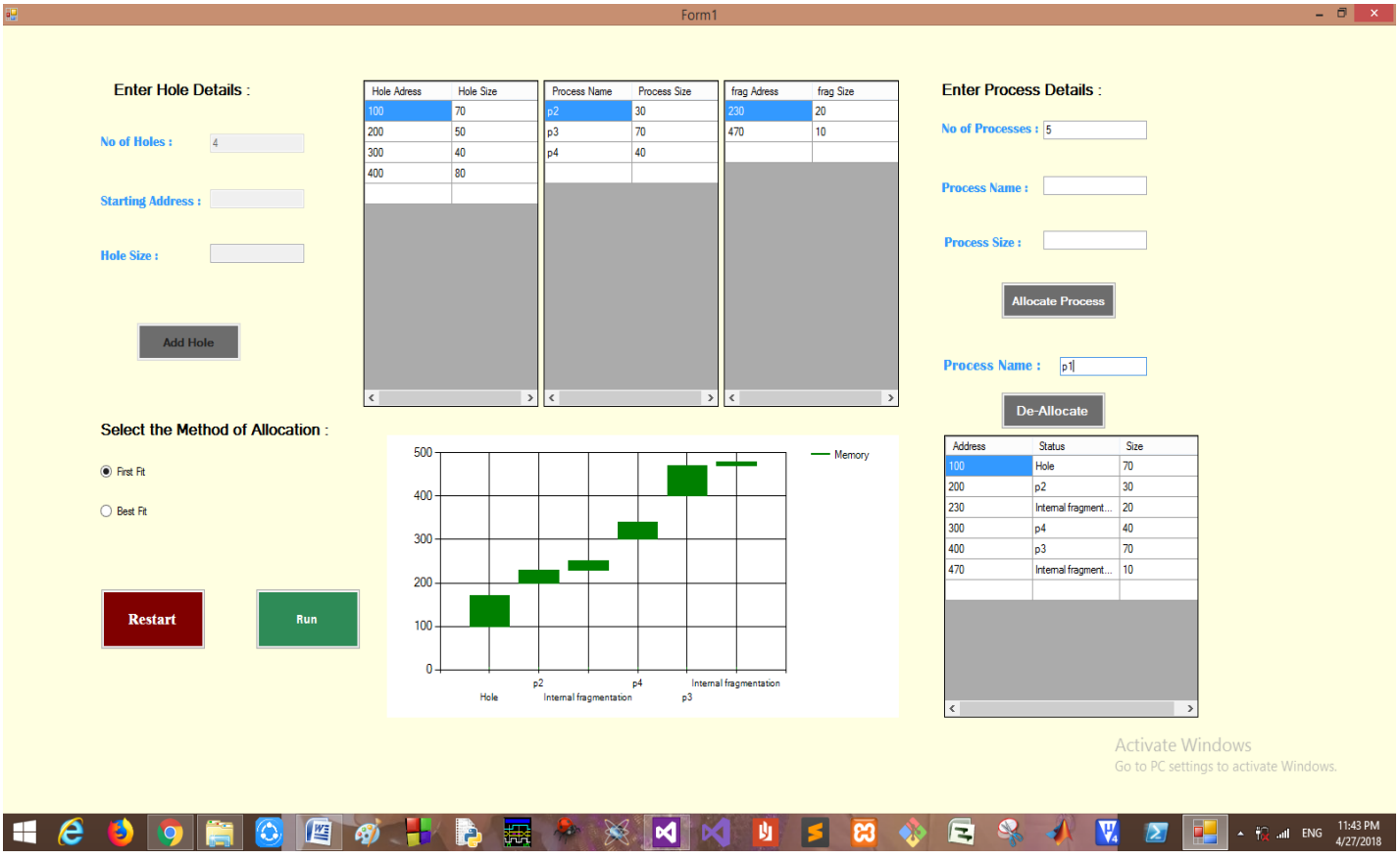


5) allocate the fifth process and press RUN.

Note: the process can't be allocated as no holes in the memory.

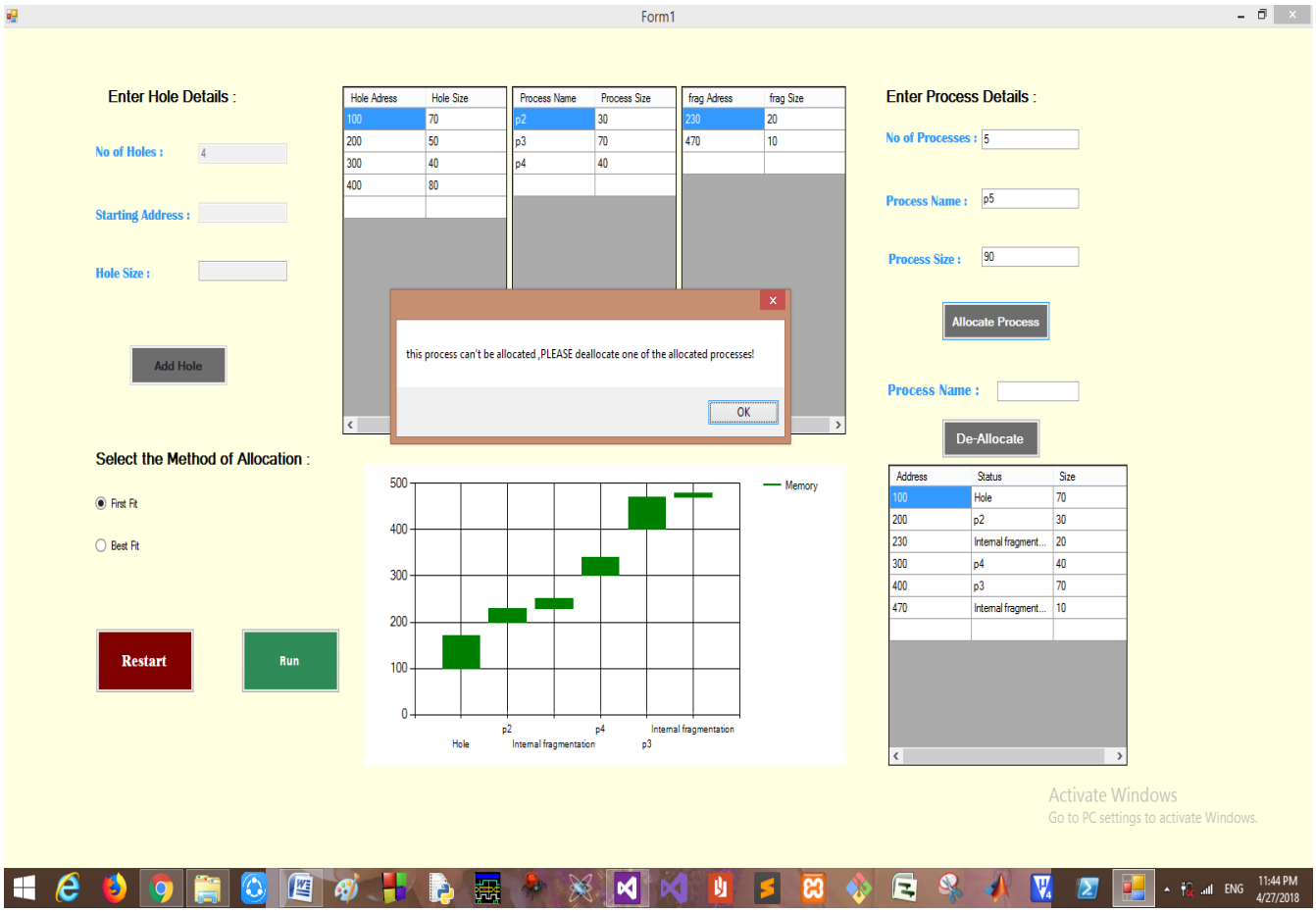


6)De-Allocate p1 and press RUN .

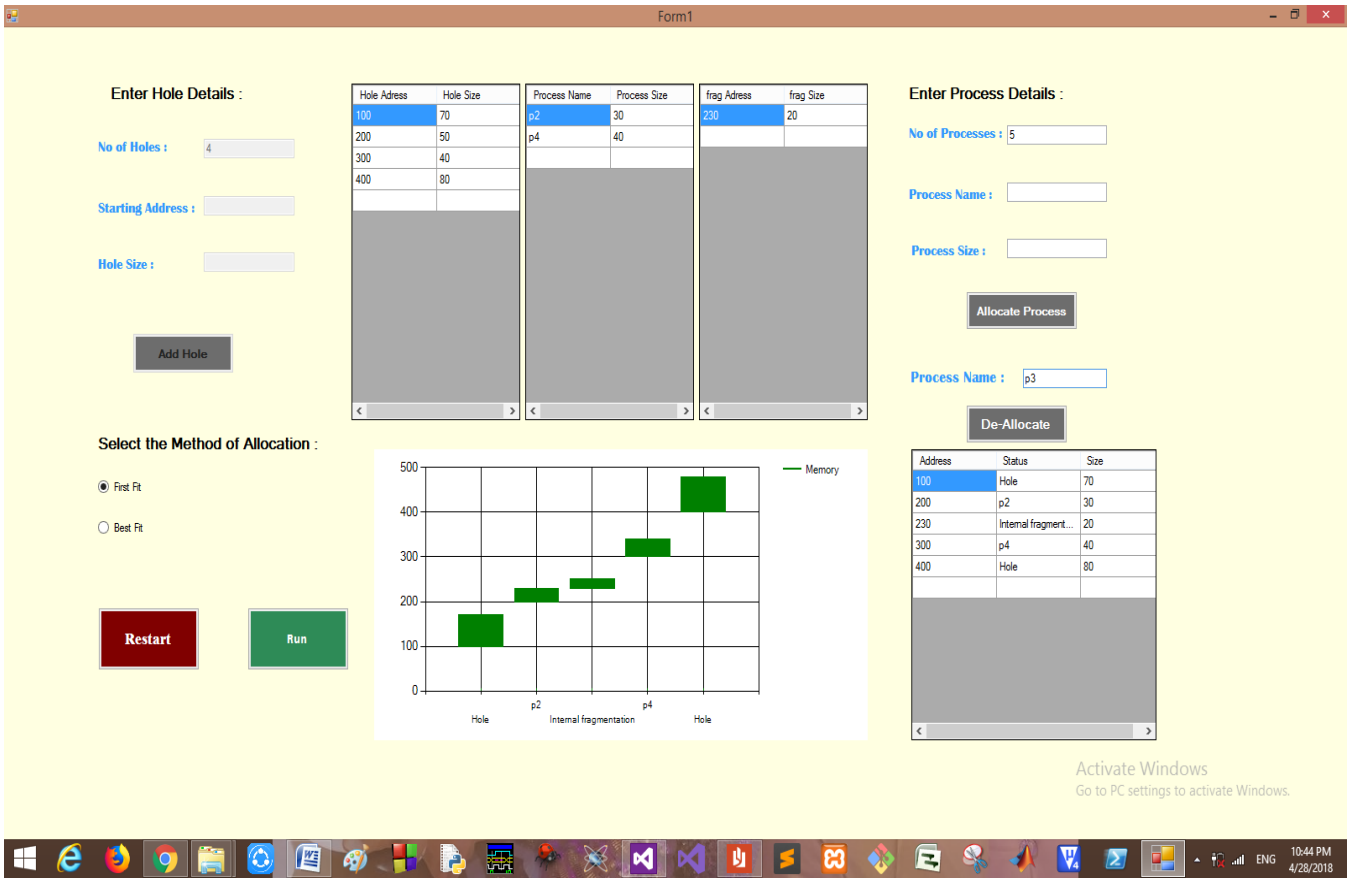


7)try to enter the process again .

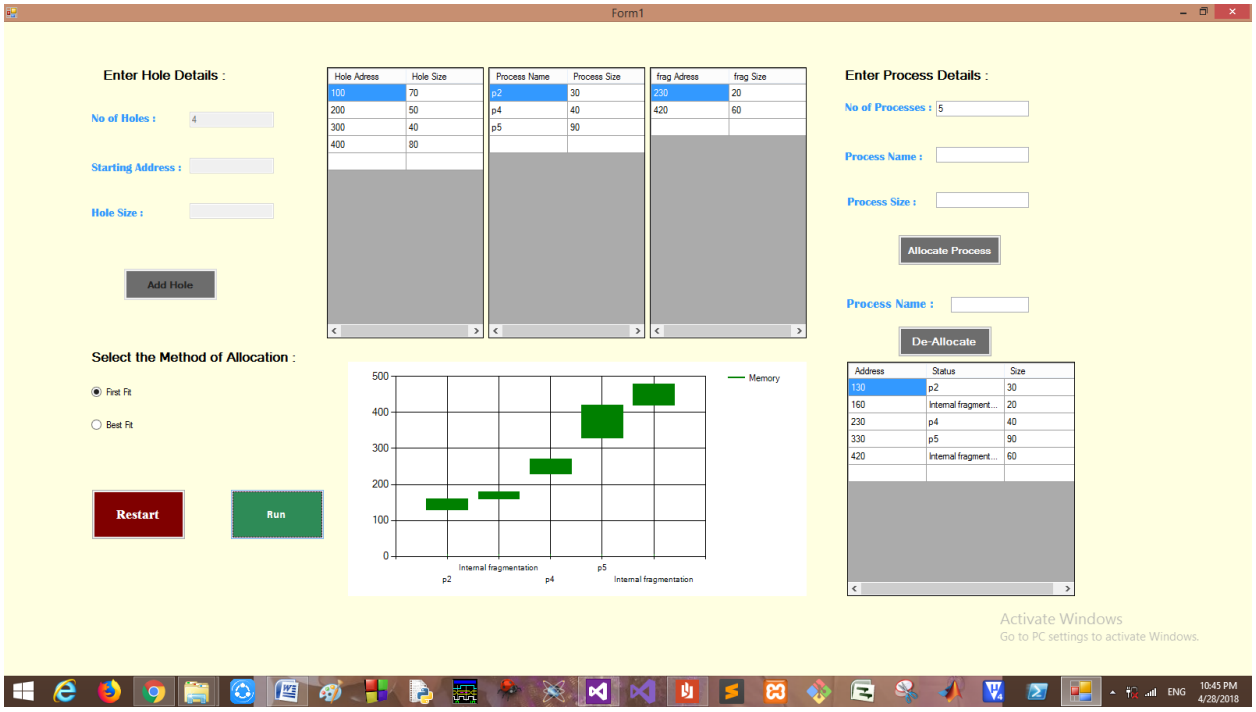
Note: (the process can’t be allocated again as no hole can fit it , and there is one hole so compaction can’t be done)



8)De-Allocate process p3 .



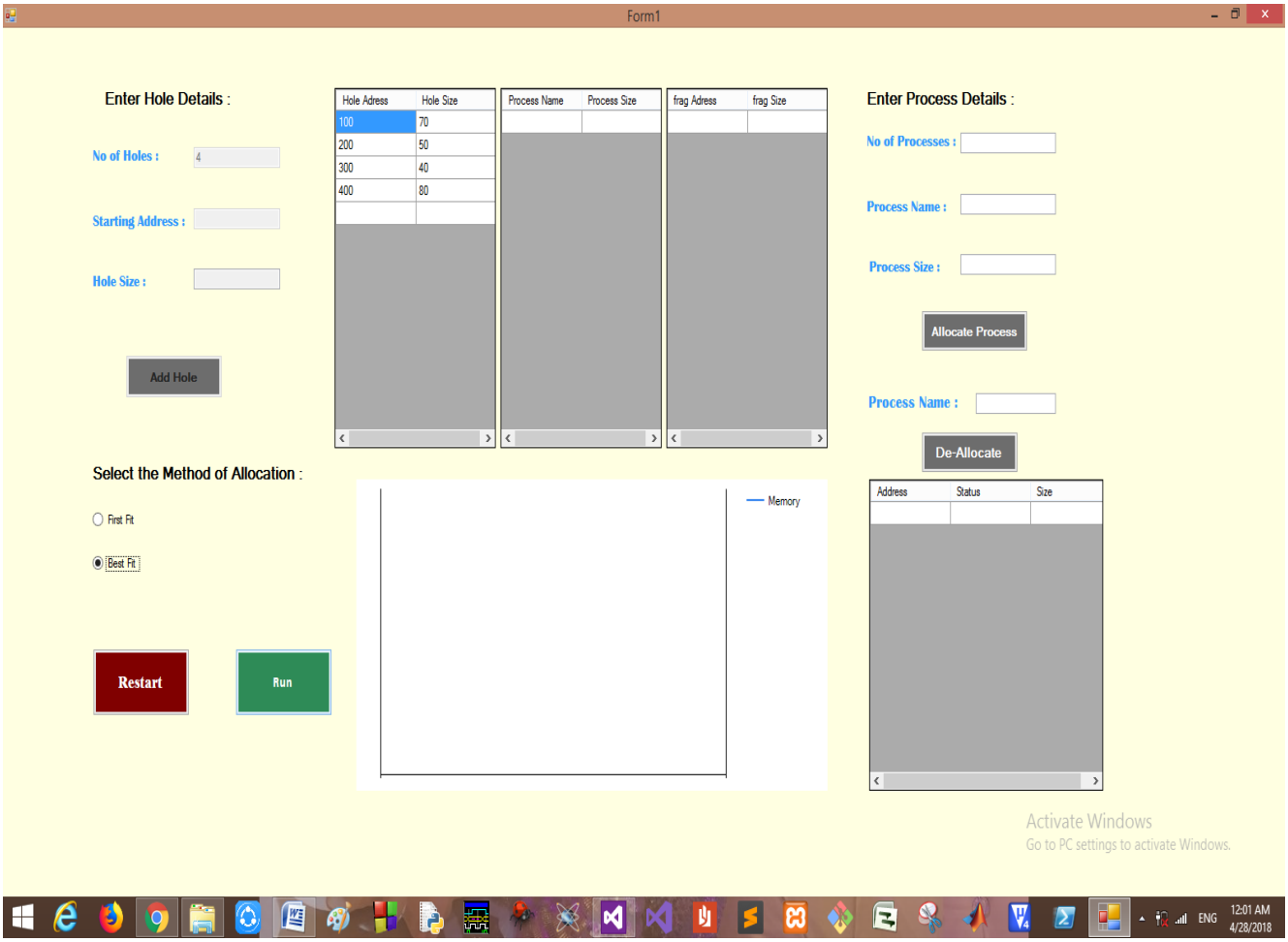
9)Allocate p5 again ☺ .



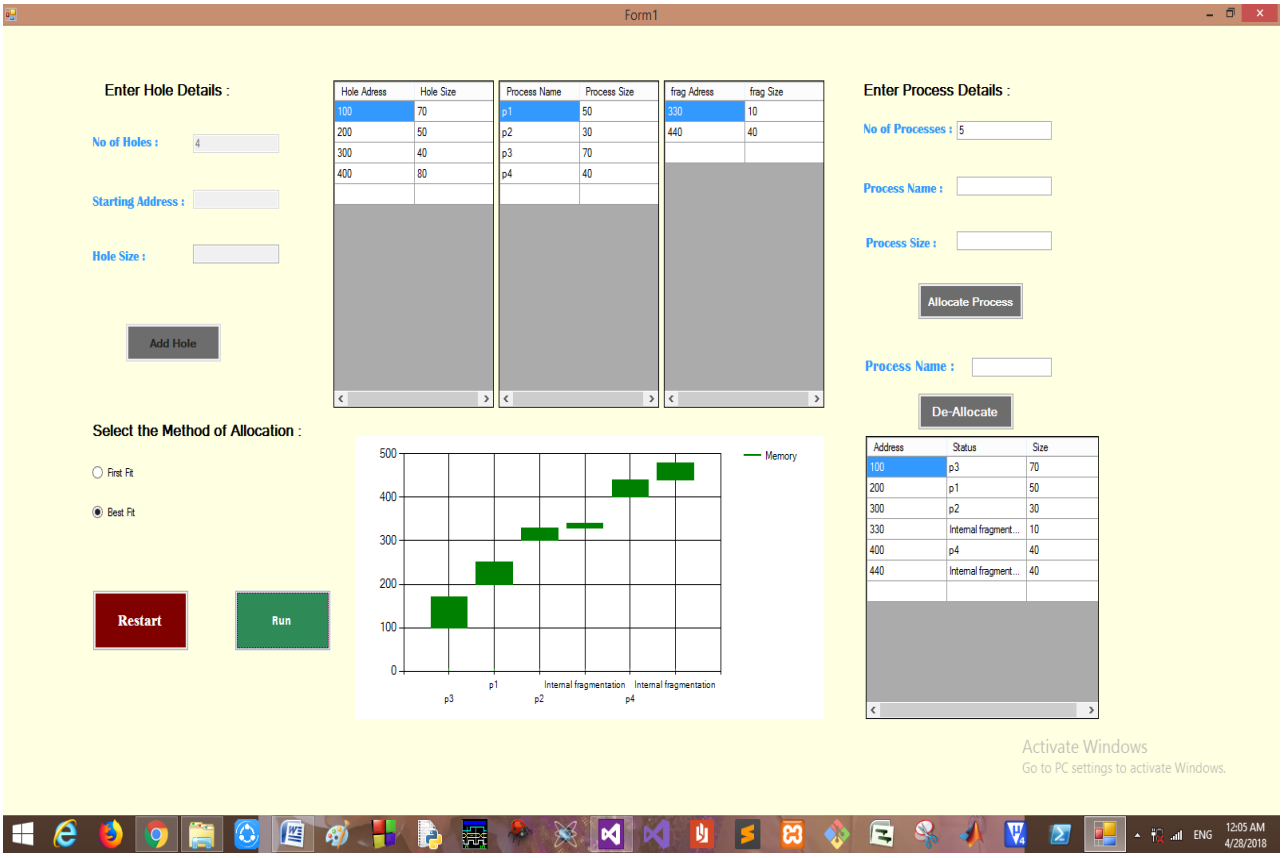
Finally we did it ☺ .

Note: compaction occur between the two holes to make one hole of size 150 .

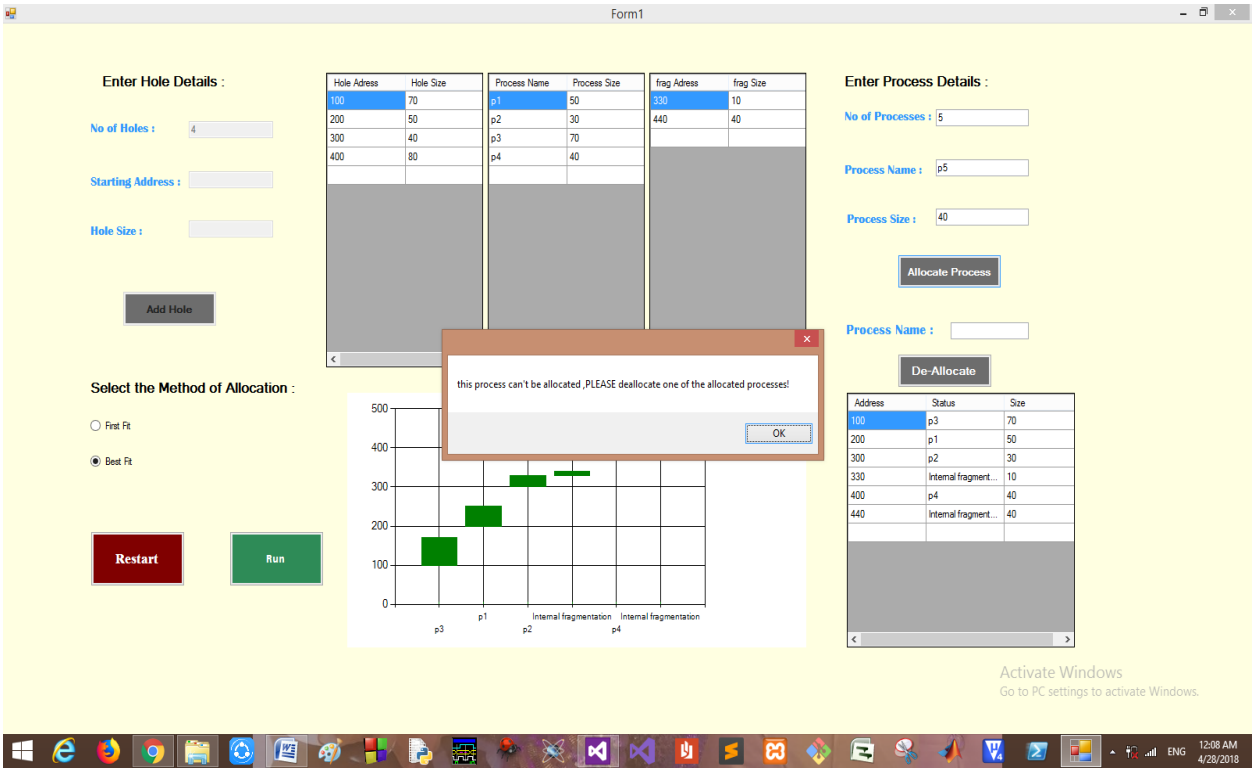
To try this Example on the Best-Fit type we Restart the program and start again .



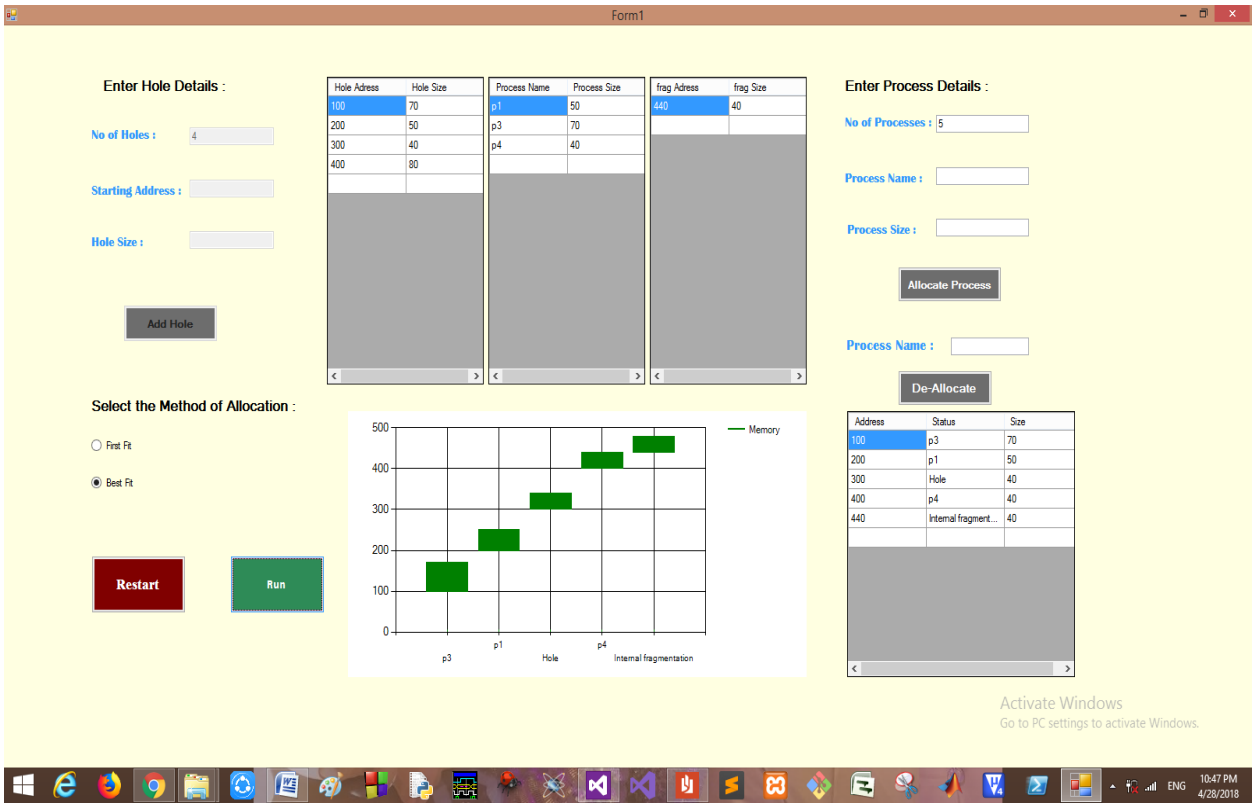
1)Allocate processes and press RUN.



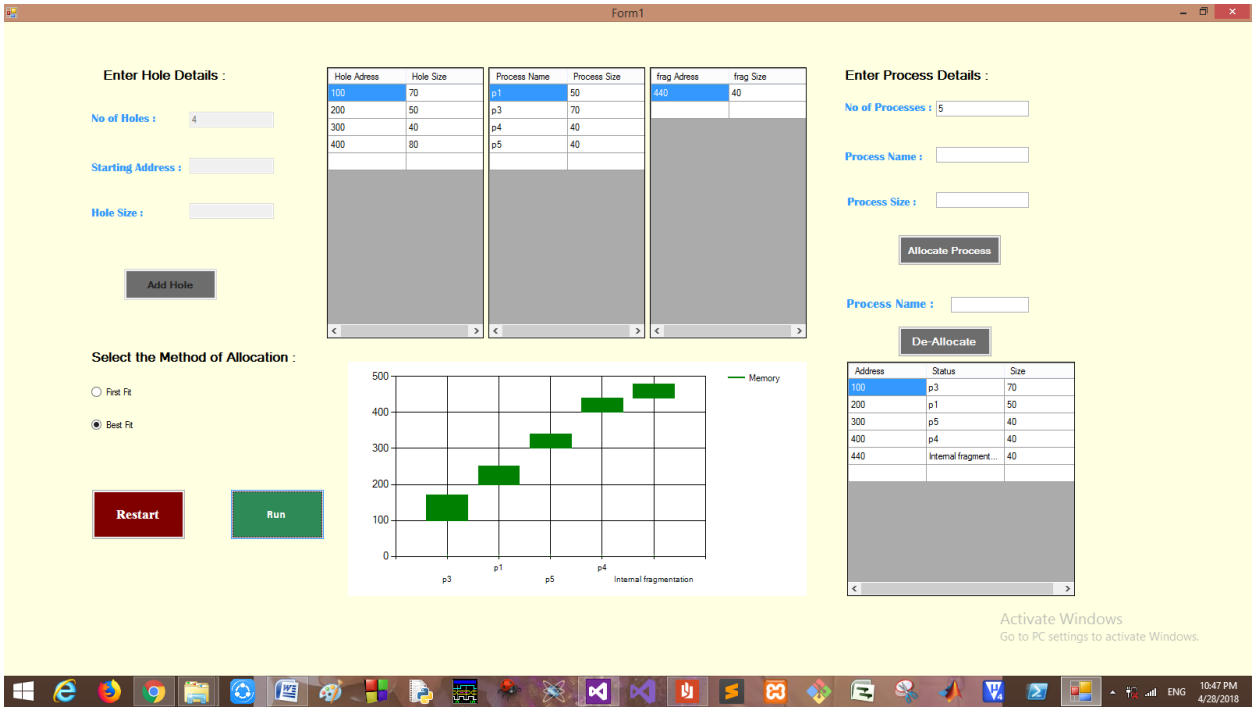
2)Allocate P5 and RUN again .



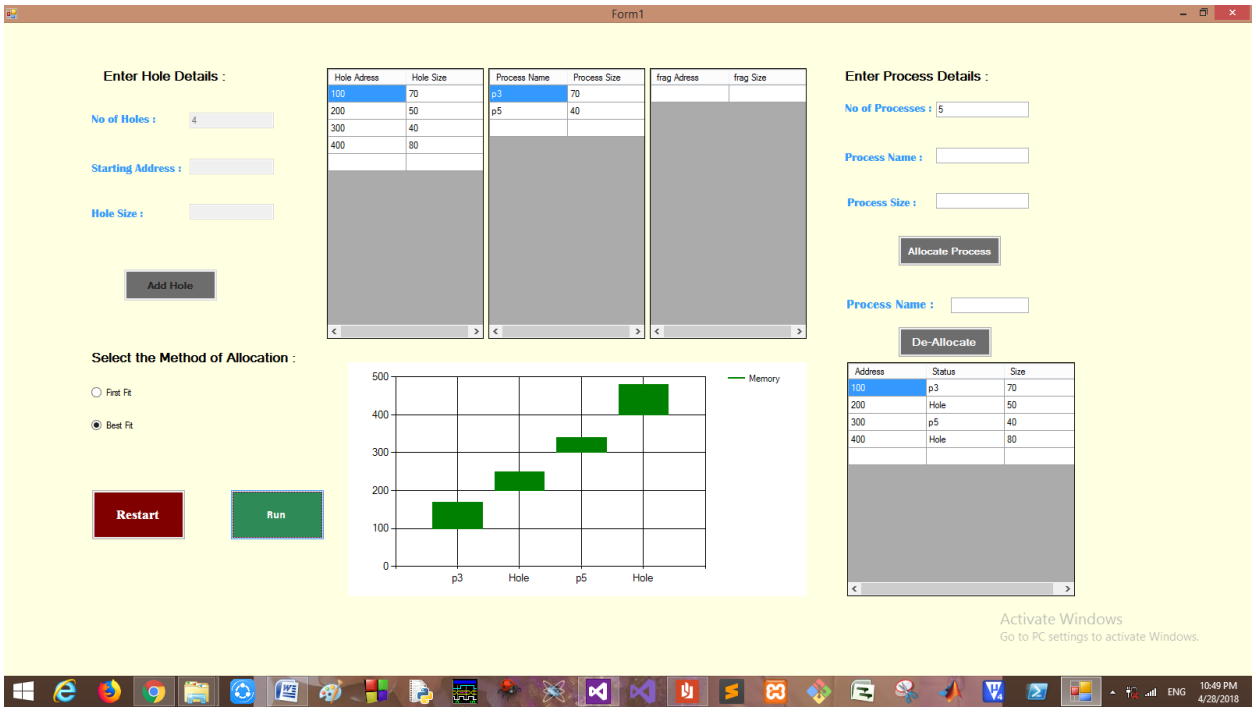
3)De-Allocate p2 and RUN .



4)Allocate p5 again .



5)De-Allocate process p1 and p4.



6)Allocate process p1 with size 100 so compaction will be done .