Lab-7 Practice Program.

*) Implement Priority Queue:

include < stdis. h>

define N 3

int queue [3 JEN];

int front [3] = {0,0,0},

int rear [3] = {-1,-1,-1}.

int item, pr;

world main ()

int ak;

while (1)

printf ("Priority queue \n");

mint (" ** ** * * * | |);

print (" In H: Painsert (n");

prints ("In)t2: Padelete In").

print ("In\t3: Padisplay\n");

print (" (n) t 4: Exit (n");

prints (" in Enter the choice in");

Scarf ("1'd", sch); switch (ch) case 1: print (" In Enter the priority number \n"); scanf (" /d", spr); if (pr >0 & pr < 4) princert (pr-1): peints (" \n Only 3 perority exists 123 \n"); break; case 2: pgdelete (); blak' case 3: display () break; case 4: leit(0); I Li Junen p. prinsert (int pr) if (lear [pr] = = N-1) prints (" In Queue Overflow (n"); (printf ("Enter the item"); scanf (" ./. d", & item L'

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real [pr]++
     quou [pr][rear [pr]] = item;
   return;
   pgdelete ()
      inti;
     paliojics; it
       if (rear [i] == front [i]-15
     peint [" In Queue impty n");
  prints ("Deleted item is I'd of greene I'd in")
      grew [i] [front [i]], i+1);
   front [i]++;
                      1 [ my [ [ ] = = N -
display 1)
  for (1-0; (-3; (++)
```

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if (rear [i] = = front [i] -1)

printf ("\Queue empty 1.d\n", (+1))

clae

printf ("\n Queue old;", i+1);

for (j= front [i]; j=rear [i]; j++)

printf ("1.d\t", queue CIJ[j]);

}

return;
```