200 5) 00 101/20 / SURYA Gold Detn Q.1) Write a program to simulate the rubring of the quove of integers using an away.

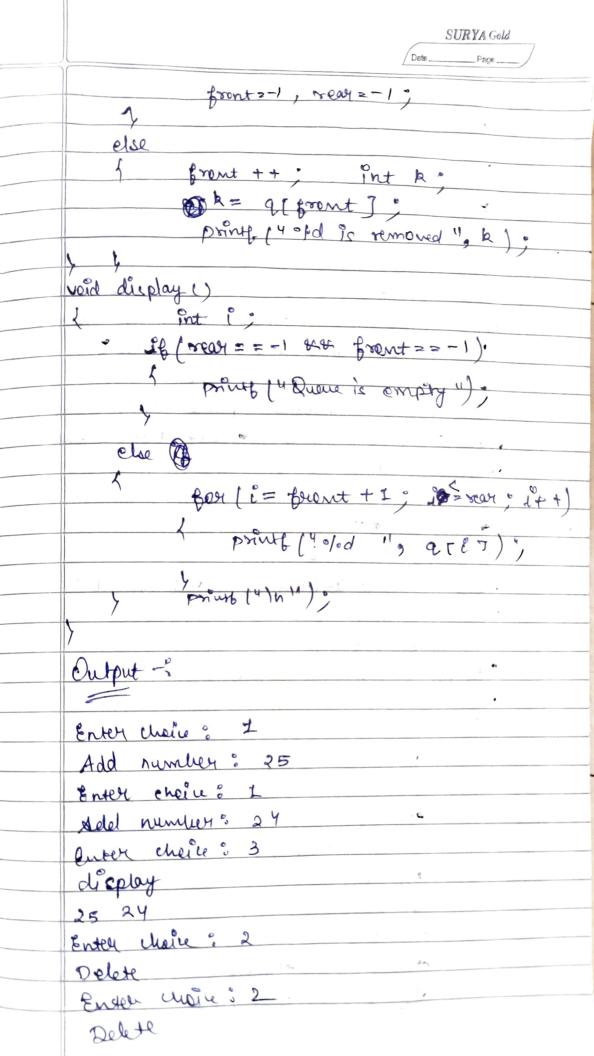
Provide the following operations:

Insert, delete, display. The program should print appropriate mengo for overflow and underglow condition Ans # include Lstdio. h) # define n 52 Port q [n], read = -1, front =-1; void add (int); void del (); old display (); word main () int chare = 0; int num; while (chare = 24) suft in (there) & print ("Enter cheire" ")" scang (4 oped 4, & chaire); switch (choice) case 1 % prints (" Add number: "); scarp (4 oped ", 4 num); add (num); case 2:

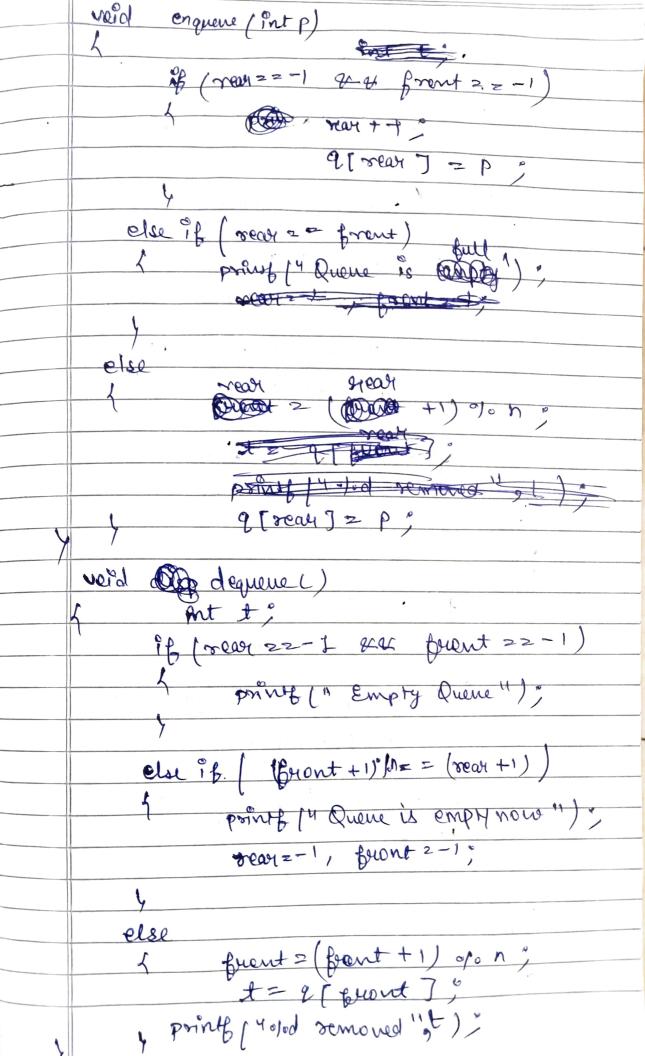
prints ("lelete");

del (); b seaks

print (Display 4) " display (); come 4 " print (4 Exit "); 4 reid add (int p) if (front 22-1 '& & rear 22-1) 9 (rear 7 = p " else if (rear = = n) privet (4 Quent is full 4); else rear ++ ; g(rear] = P . void del () if (rear == -1 44 front = 2 -1) print (" Queue is empty"); Else if ((Brent +1) = 2 (rea+1)) print [" Queue is empty now");



Enver moine : 2 Queue is empty now Enter more : 4 Bust Q-2-) Write a gragram to simulate the working of a wireular queue using an overay Proutede the following operations of The program should point appropriate message for queue empty and queue overflow condition. # melude <stdo-h7 # define n 3 void enqueue @ (int); fort 9[n]; noid dequeux () word display () cont rearz-1, frontz-1; veid main 1) Enquelle (25) enquere (34); Enquer (45) enquere (24) déqueue () déquene () o display ()



Data____ void display () if | real 22 -1 Out front 2 = = prints (4 Queue is empty " else if (rear = = front) e= front + 1; while (i) = real.) prints / 4 olod ", 9 2 6 2 3 12 (1+1) 0) UN; Print (4)00 11; 9[17); else j= front + 1; while (f / = rear) print[14 o/od 119 2[i]); 12 (1+1) o) on; prints (4 % d 11 9 9 [j]); Printf (V)n") Quene is full