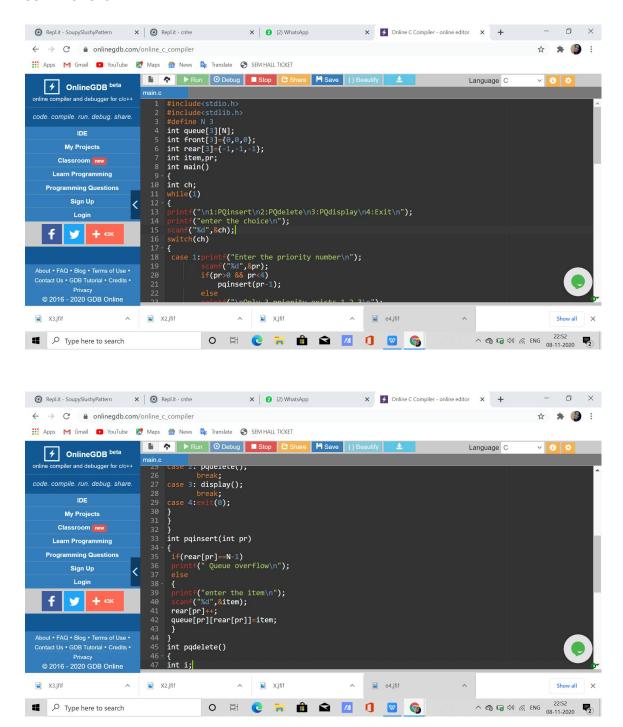
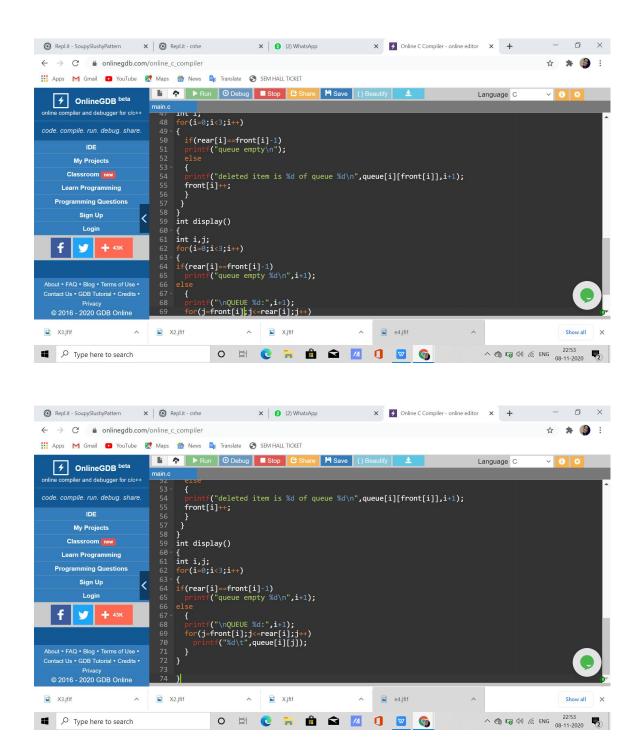
```
MULTIPLE PRIORITY QUEUE:
#include<stdio.h>
#include<stdlib.h>
#define N 3
int queue[3][N];
int front[3]={0,0,0};
int rear[3]={-1,-1,-1};
int item,pr;
int main()
{
int ch;
while(1)
{
printf("\n1:PQinsert\n2:PQdelete\n3:PQdisplay\n4:Exit\n");
printf("enter the choice\n");
scanf("%d",&ch);
switch(ch)
{
 case 1:printf("Enter the priority number\n");
           scanf("%d",&pr);
           if(pr>0 && pr<4)
           pqinsert(pr-1);
           else
           printf("\nOnly 3 priority exists 1 2 3\n");
           break;
```

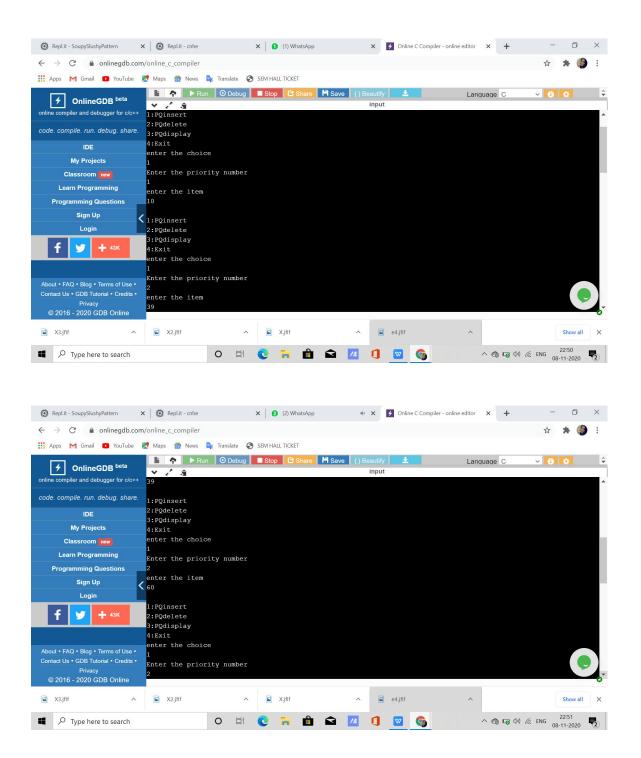
```
case 2: pqdelete();
         break;
case 3: display();
         break;
case 4:exit(0);
}
}
}
int pqinsert(int pr)
{
 if(rear[pr]==N-1)
 printf(" Queue overflow\n");
 else
 {
 printf("enter the item\n");
 scanf("%d",&item);
 rear[pr]++;
 queue[pr][rear[pr]]=item;
 }
}
int pqdelete()
{
int i;
for(i=0;i<3;i++)
{
```

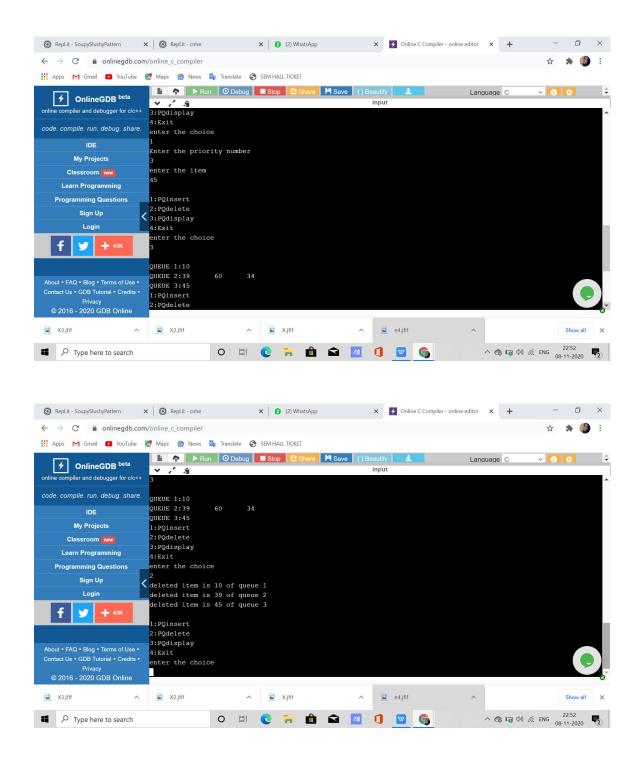
```
if(rear[i]==front[i]-1)
  printf("queue empty\n");
  else
  {
  printf("deleted item is %d of queue %d\n",queue[i][front[i]],i+1);
  front[i]++;
  }
 }
}
int display()
{
int i,j;
for(i=0;i<3;i++)
{
if(rear[i]==front[i]-1)
  printf("queue empty %d\n",i+1);
else
  {
  printf("\nQUEUE %d:",i+1);
  for(j=front[i];j<=rear[i];j++)</pre>
     printf("%d\t",queue[i][j]);
  }
}
}
```

## SCREENSHOTS:









## WRITTEN:

case 1: print (Nerrow the priority number)  st (" 1.d", g.p.a)  if (p. >0.g.d pr.<4)  prinsent (pr. 1).  pre (" only 3 priority widt 123 (p.11));  brush;	int ch;  white (1)  i pt ("1: Pg injust 1n2. Pg dutt 1v3. Pg display)  1 n4: exit 1n0);  pt ("Enter the chaice 1n");  st (" > d", gch);  switch (ch)	#include < stdio.h>  # define N 3  int queue [37[N];  int pear(3) = {-1, -1, -1};  int item, pr:  void main()  \$	- Mushiple priority guent.  DATE:
---	--	---	-----------------------------------

pt ( j= f=vert(i); j<= rean(i); j++)  pt (" x.d \t", q, u, u, [](j));  }  pt (" x.d \t", q, u, u, [](j));  }	o;i<3;i++)  o;i<3;i++)  ("quum empty;	prent[i] tt;  return;  t  display()	one ("queue enry");  pe ("queue enry");  pe ("deleted item is vid of quue rid in", queue[][[-]]]),
--	---------------------------------------	-------------------------------------	--

(ten (i=0;ie3; i++)	int f.		Detarme ()	TO STATE OF THE ST	surum;	gum [pr][rean[pr]] = item;	resm[pr]++;	st (" ", gitem);	pt (" eviden the item in");	else	pf ( " Quem overflow in ");	(+ (rear[pr) == N-1)	pairwat (int pr)	4	د		(a) 1: exit(0);	breat;	coses: displayer;	break;	case2: pgdelute();	
		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		THE THE			THE PROPERTY OF		ENITE BIRE	The second second	7	S. Sention (1)			"CHIVIES"	· a Figura &	DELINATION OF THE	1000	the Change	C.Land B.		PAGE NO. DATE: / /