→ LAB-3

```
#include<stdio.h>
#include<conio.h>
#include<process.h>
#define QUE_SIZE 3
int item, front=0, rear=-1,
                q[10];
void insertrear()
{ if (rear == QUE_SIZE-1)
{
printf("queue Overflow\n");
return;
}
rear = rear+1;
q[rear] = item;
}
int deletefront()
{
  if (front> rear)
  {
   front=0;
   rear = -1;
   return -1;
  }
  return q[front++];
}
void displayQ()
{
 int i;
 if(front>rear)
 {
 printf("queue is empty\n");
 return;
}
 printf("contents of queue\n");
```

```
for (i=front ; i <= rear ; i++)
{
printf ("%d \n", q[i]);
}
}
void main ()
{
int choice;
for(;;)
{
printf("\n1: insertrear \n2: deletefront
\n3: display \n4: exit \n");
printf("enter the choice \n");
scanf("%d", &choice);
switch(choice)
{
case 1 : printf("enter the item to be
inserted \n");
scanf("%d", &item);
insertrear();
breake;
case 2 : item = deletefront();
if(item == -1)
printf("queue is empty\n");
else
printf("item deleted = %d \n", item);
breake;
case 3 : displayf();
breake;
default : exit(0);
}
}.
```