Lab Program-3

```
#include <stdio.h>
#include <conio.h>
#include <process.h>

int item, r=-1, f=0, n[illegible], q[10];

void insertrear()
  {
    if (r==(n-1))
      {
        printf ("Queue overflow\n");
          return;
      }
    printf ("Enter item to be inserted\n");
      scanf ("%d", &item);
          r=r+1;
          q[r]= item;
  }

Void deletefront()
  {
    if (f>r)
      {
        printf ("Queue is empty\n");
          f=0;
          r=-1;
      }
```

```
else
    printf("Item deleted is = %d \n", q[f]);
}
void display()
{   int i;
    if (f > r)
    {
        printf("queue is empty \n");
        return;
    }
    else
    {printf("The content of queue is \n");
    for (i=f; i<=r; i++)
    {
        printf("%d \t", q[i]);
    }
    print("\n");
    }
}
int main()
{
    int c, i;
```

```
printf ("Enter size of queue\n");
scanf ("%d", &n);
while (i!=4)
{
    printf ("1-Insert 2-Delete 3-Display
                                4-Exit\n");
    printf ("Enter choice");
    scanf ("%d", &c);
switch(c)
{
    case 1:
        insertrear();
        break;
case 2:
        deletefront();
        break;
case 3:
        display();
        break;
case 4:
        exit(0);
default:
        printf ("Invalid choice");
}
}
}
```