

```
import java.util.Scanner;
public class Printjob
{
    int job[]; //Data Members
    int Capacity;
    int NewJob;
    int Front;
    int Rear;

    Printjob() //Constructor to initialize the data members.
    {
        Capacity = 20;
        Front = Rear = -1;
        createJob();
    }

    void createJob() //Function to create the initialize queue.
    {
        job = new int[Capacity];
    }

    void addJob() //Function to add a new item to the queue.
    {
        if(Rear == Capacity - 1)
        {
            System.out.println("Printjob is full, cannot add any more");
        }
        else
        {
            if(Rear == -1){
                Front = Rear = 0;
            }
            else
            {
                Rear ++;
            }
        }
    }
}
```

```

    }
    job[Rear] = NewJob;
}
}

```

void removeJob() //Function to remove an item from the queue.

```

{
    if(Front == -1)
    {
        System.out.println("Printjob is empty");
    }
    else
    {
        if(Front == Rear)
            Front = Rear = -1;
        else
            Front++;
    }
}

```

void displayJob() //Function to display all the elements in the queue.

```

{
    if(Front == -1)
        System.out.println("Printjob is empty");

    else
    {
        System.out.println("\nStack Elements");
        for(int i = Front ;i<=Rear;i++)
            System.out.println(job[i]);
    }
}

```

public static void main(String args[]) // main function to show user the available functions

```

{
    Scanner br=new Scanner(System.in);
    char ask = 'Y';

```

```
Printjob p1 = new Printjob(); // Object Creation
```

```
do
```

```
{
```

```
    System.out.println("\n-----Menu-----"); //Menu
```

```
    System.out.println("1).Push");
```

```
    System.out.println("2).Pop");
```

```
    System.out.println("3).Display");
```

```
    System.out.println("4).Exit");
```

```
    System.out.println("Enter Your Choice");
```

```
    int choice = br.nextInt();
```

```
    switch(choice)
```

```
    {
```

```
        case 1: System.out.println("Enter Item to Push");
```

```
        p1.NewJob = br.nextInt();
```

```
        p1.addJob();
```

```
        break;
```

```
        case 2: p1.removeJob();
```

```
        break;
```

```
        case 3: p1.displayJob();
```

```
        break;
```

```
        case 4: System.exit(0);
```

```
        break;
```

```
    }
```

```
    System.out.println("\nDo you want to Continue(Y/N)?");
```

```
    ask = br.next().charAt(0);
```

```
}
```

```
while(ask == 'Y' || ask == 'y');
```

```
}
```

```
}
```

OUTPUT

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

3

Printjob is empty

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

1

Enter Item to Push

56

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

1

Enter Item to Push

65

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

3

Stack Elements

56

65

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

2

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

3

Stack Elements

65

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

1

Enter Item to Push

99

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

3

Stack Elements

65

99

Do you want to Continue(Y/N)?

Y

-----Menu-----

1).Push

2).Pop

3).Display

4).Exit

Enter Your Choice

4