

File IO

- Byte Streams
 - InputStream
 - OutputStream
- Character Streams
 - Writer
 - Reader

File NIO

Channels
Buffers

java8 Interfaces

```
interface Shape{  
    void calculateArea();  
    default void calculatePerimeter(){  
  
    }  
}
```

```
Rectnagle r = new Rectangle();  
sh.calculateArea();
```

```
interafce Acceptable{  
    void accept(Scanner sc);  
}
```

```
interface Perimeter{  
    void calculatePerimeter();  
}
```

```
EMployee  
accept();
```

```
Manager  
accept();//bonus
```

```
Salesman  
accept();// comm
```

```
Salesmanager  
accept(){  
    Manager::accept();  
    Salesman::accept();  
}
```

```
void method1(T n1, T n2){  
    sysout(n1+n2)  
}
```

```
T method1(T n1, T n2){  
    return n1+n2;  
}
```

```
D method3(I n1,I n2){  
    double res = n1/n2;  
    return res;  
}
```

Comparator<T> : compare : (T,T)->int

Streams

Pipeline of Operations

1,2,3,4,5,6,7,8,9

odd numbers

square

```
for(int element :arr){  
    if(elemet%2!=0){  
        result = element*element;  
        sysout(result);  
    }  
}
```

Collection ->Filtering-> Odd Numbers -> Processsing -> Square

Stream

1. Intermediate Operation

Stateful operation

Stateless Operations

2. Terminal Operation

Stream->Processing->stream

```
Collections.sort(l1);
```

```
for( Integer ele: l1){  
  
}
```

