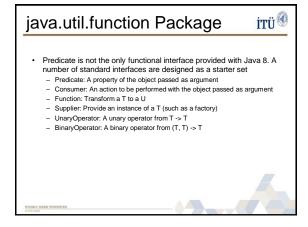


```
Lambda Expressions

• Lambda expressions allow the easy reuse of any expression.

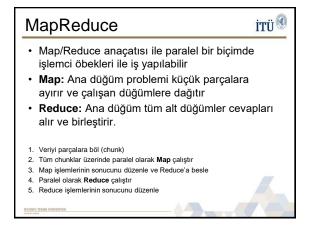
public class RoboCallTest {
    public class RoboCallTest {
        public static void man(String[] args){
            LList-Person-pl = Person.createShort.lst();
            RoboContactLambda robo = new RoboContactLambda();
            Predicate-Person> allDrivers = p-> p.getAge() >= 16;
            Predicate-Person> allDrivers = p-> p.getAge() >= 18 & p.getAge() <= 25
            & & p.getGender() == Gender.MALE;
            Predicate-Person> allPilots = p-> p.getAge() >= 23
            & & p.getAge() >= 23
            & & p.getAge() <= 65;
            System.out.println("n=== Calling all Drivers ===");
            robo maniContacts(pl, allDrivers);
            System.out.println("n=== Mail all Pilots ===");
            robo mailContacts(pl, allPilots);
            system.println("n=== Mail all Pilots ===");
            robo mailContacts(pl, allPilots);
            robo mailContacts(pl, al
```



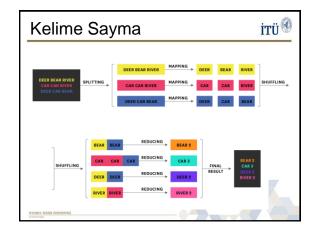
```
java.util.function Package

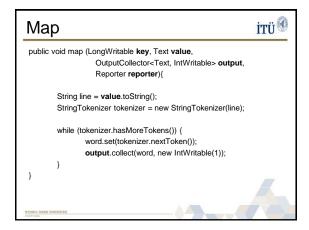
Lambda expressions allow the easy reuse of any expression.

public class NameTestNew {
    public static void main(String[] args) {
        System.out.prinf(n===Western List===");
        for (Person person ist1);
        System.out.prinf(n===Eastern List==");
        for (Person person ist1);
        public String prinf(out.public String pri
```









```
Peduce

public void reduce(Text key, Iterator<IntWritable> values,
OutputCollector<Text, IntWritable>
output,

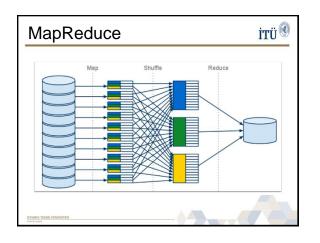
Reporter reporter) {

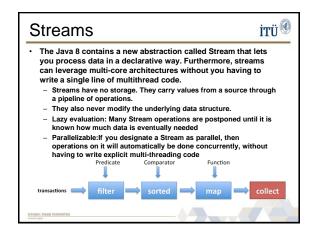
int sum = 0;
while (values.hasNext()) {
 sum += values.next().get();
}

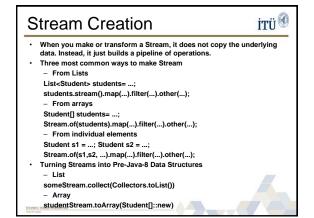
output.collect(key, new IntWritable(sum));
}
```

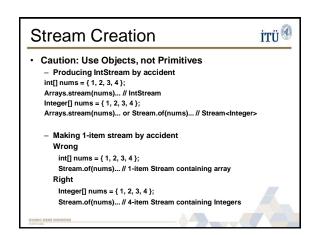
```
JobConf conf = new JobConf(WordCount.class);
conf.setJobName("wordcount");

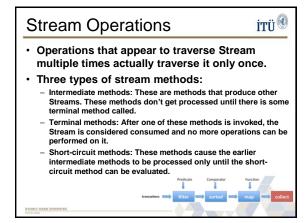
conf.setOutputKeyClass(Text.class);
conf.setOutputValueClass(IntWritable.class);
conf.setMapperClass(Map.class);
conf.setCombinerClass(Reduce.class);
conf.setReducerClass(Reduce.class);
conf.setPoputFormat(TextInputFormat.class);
conf.setOutputFormat(TextOutputFormat.class);
JobClient.runJob(conf);
```

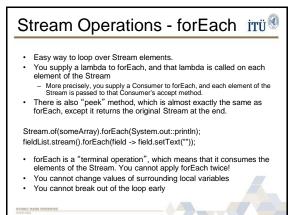


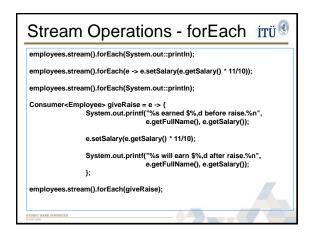


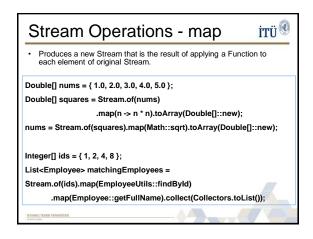


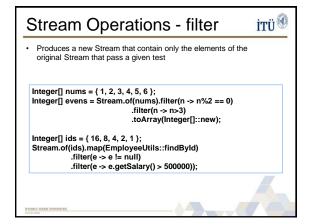


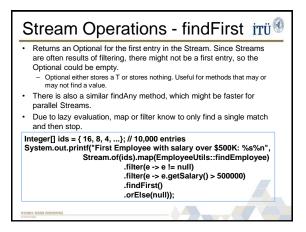


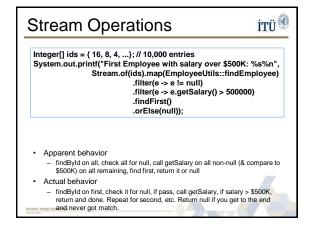


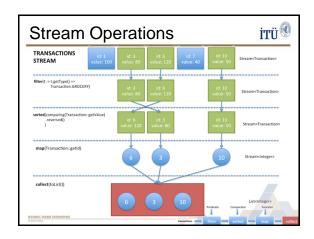


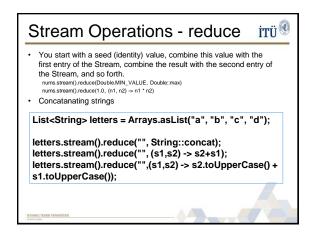


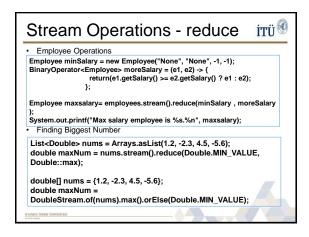


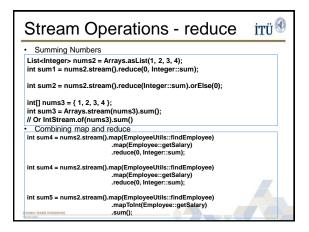


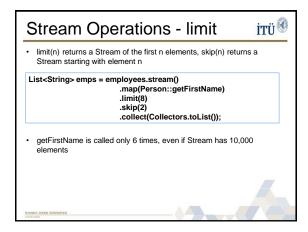


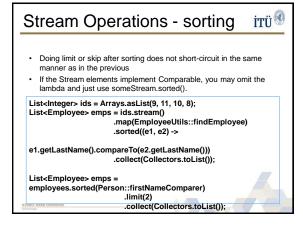


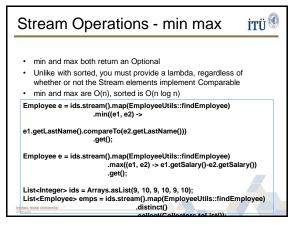




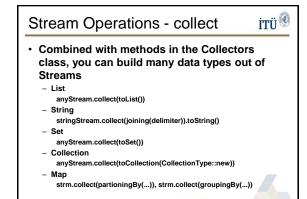


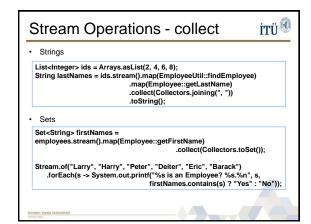


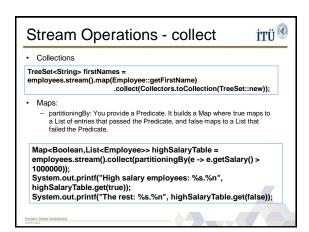


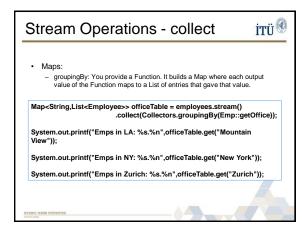


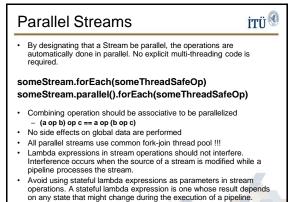
Stream Operations - matching iTÜ - allMatch, anyMatch, and noneMatch take a Predicate and return a boolean. They stop processing once an answer can be determined. - count simply returns the number of elements boolean isLowSalary = employees.stream().noneMatch(e -> e.getSalary() < 200000); Predicate<Employee> highSalary = e-> e.getSalary() > 7000000; boolean isOneHighSalary = employees.stream().anyMatch(highSalary); boolean isAllHighSalary = employees.stream().filter(highSalary).count();

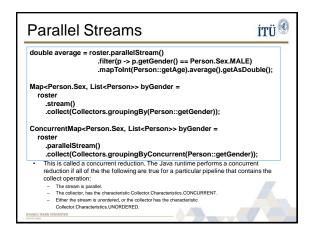


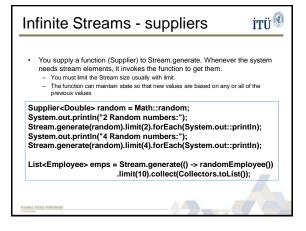


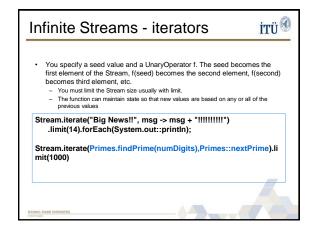












Thanks • Slides have been adoted from CoreServlets Tutorials and Oracle Java By Example Tutorials • http://www.oracle.com/webfolder/technetw ork/tutorials/obe/java/Lambda-QuickStart/index.html • http://www.coreservlets.com/java-8-tutorial/#streams-1