



Core Java: First Java Program

Overview



- *Environment Setup.*
- *First Java Program*



Environment Setup



- *Download Java Platform(JDK) from <http://www.oracle.com/technetwork/java/javase/downloads/index.html>*
- *Install the JDK on your machines*
- *Download NetBeans IDE from <http://www.oracle.com/technetwork/java/javase/downloads/index.html>*
- *Install the IDE on your machines and use the downloaded JDK location as the default JDK for the IDE.*

Other Available IDEs



- *Eclipse (free and open source)*
- *Sun's Java Studio Enterprise (free)*
- *Sun's Java Studio Creator (free)*
- *Oracle JDeveloper (free)*
- *Borland JBuilder*
- *IBM's WebSphere Studio Application Developer*
- *BEA WebLogic Workshop*
- *IntelliJ IDEA*

First Java Program



```
package myPackage;  
/**  
 * @author testuser  
 */  
public class FirstApp {  
    public static void main(String[] args) {  
        System.out.println("Hello Beans!!");  
    }  
  
}
```

Contents of the java program- Package



```
package myPackage;
```

```
/**
```

```
 * @author testuser
```

```
 */
```

```
public class FirstApp {
```

```
    public static void main(String[] args) {
```

```
        System.out.println("Hello Beans!!");
```

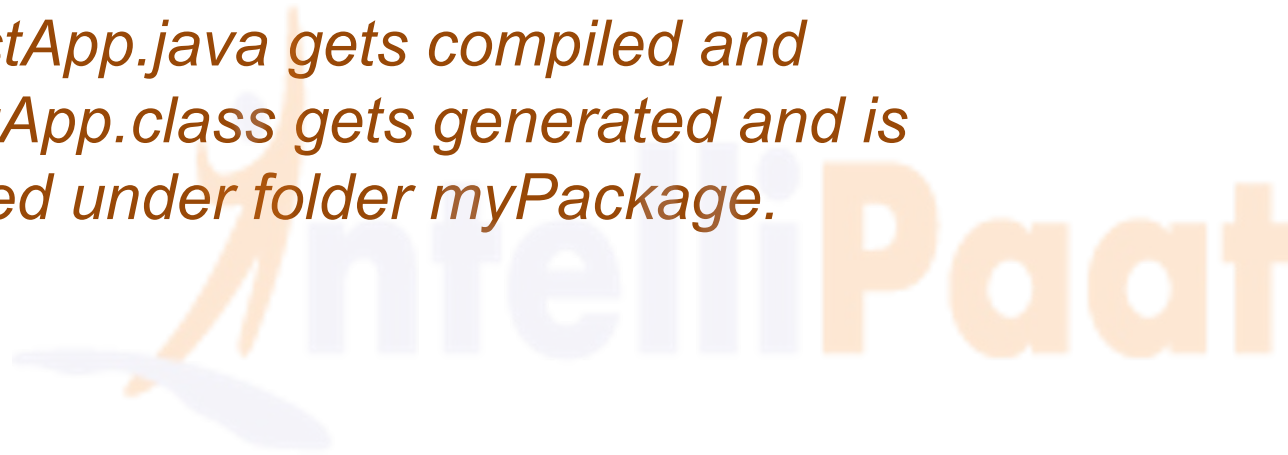
```
    }
```

```
}
```

Contents of the java program- Package



- *Specifies the package of the program.*
- *FirstApp.java gets compiled and FirstApp.class gets generated and is stored under folder myPackage.*



Contents of the java program- Comments



```
package myPackage;
```

```
/**
```

```
 * @author testuser
```

```
 */
```

```
public class FirstApp {
```

```
    public static void main(String[] args) {
```

```
        System.out.println("Hello Beans!!");
```

```
    }
```

```
}
```


Contents of the java program- Comments



- *Text preceded by “//”*
- *Text surrounded by /* */*
- *Gets ignored by compiler*



Contents of the java program- Reserved Words



- *Reserved words or keywords are words that have a specific meaning to the compiler and cannot be used for other purposes in the program.*
- *E.g. class, public, static etc.*

Contents of the java program- Statements



- *Represents an action or sequence of actions . E.g.*
System.out.println("Hello Beans!!");
- *Every statement in Java ends with a semicolon (;).*



Contents of the java program- Blocks



- *A pair of braces i.e. {}, forms a block that groups components of a program.*

E.g. public static void main(String[] args)
{
System.out.println("Hello
Beans!!");
}

Contents of the java program- Class



- *Represents the blueprint for all the objects.*

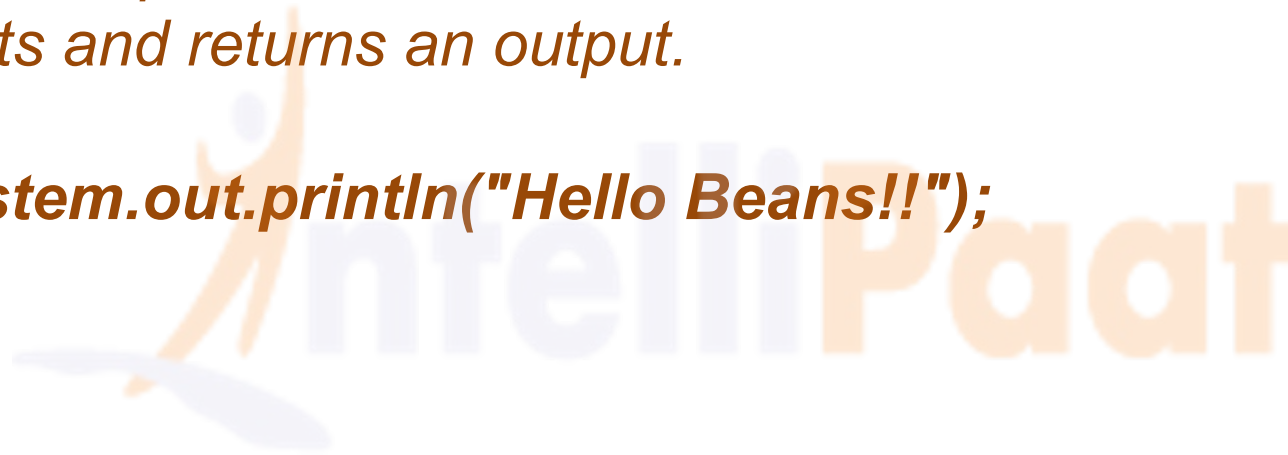
- *public **class** FirstApp {*



Contents of the java program- Methods



- *A function call for performing some specific operations and takes in some inputs and returns an output.*
- **`System.out.println("Hello Beans!!");`**



Contents of the java program- Main method



- *Acts as a starting point of the program.*
- *Takes in String array as input parameter*

```
public static void main(String[] args) {  
    System.out.println("Hello Beans!!");  
}
```

Thank You



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