Session - 1

1. **Create sample classes to understand boxing & unboxing.**

Code:

```
public class Autoboxing{
 public static void main(String[] args){
       int x=200;
       Integer obj = new Integer (x);

       Integer obj1 = 40;
       System.out.println(obj+" "+obj1);
  }
  }
```

Output:

```
200 40
```

Code:

```
public class AutoUnboxing{
     public static void main(String[] args) {
      Integer i =new Integer(500);
      int x=i;
      System.out.println(x);
  }
  }
```

Output:

```
500
```

2. **Use different methods of java defined wrapper classes.**

Code:

```
public class WrapperEx {
       public static void main(String[] args){
          int a= Integer.parseInt( args[0]);
          int b= Integer.parseInt( args[1]);
```

```
        int c=a+b;
        System.out.println("x+y="+c);
    }
}
```

Output:

```
x+y=68
```

3. **create a class and convert all primitive datatypes into wrapper classes.**

Code:

```
public class Test {
 public static void main(String[] args) {
 byte b=50;
 int i=20;
 short s=90;
 float f=70.3f;
 double d=50.6;
 String n="sweety";
 boolean t=true;
 long l=70;
 Byte b1=b;
 Integer i1=i;
 Short s1=s;
 Float f1=f;
 Double d1=d;
 String n1=n;
 Boolean t1=t;
 Long l1=l;
 System.out.println("Primitive to Wrapper change");
 System.out.println(b1);

 System.out.println(i1);

 System.out.println(s1);

 System.out.println(f1);

 System.out.println(d1);

 System.out.println(n1);
```

```
   System.out.println(t1);
   System.out.println(11);

}}
```

Output:

```
90
70.3
50.6
sweety
true
11
```

4. **create an EnumClass define enum inside class traverse it.**

Code:

```
public class EnumEx {
       enum Leveling{
      low,High,Medium;
      }
 public static void main(String[] args) {
      for(Leveling obj:Leveling.values()){
            System.out.println(obj);
      }
   }
   }
```

Output:

```
low
High
Medium
```

5. **Create a class ArrayEx and sort the elemnts by using ArraySort method.**

Code:

```
import java.util.Arrays;
```

```
    public class ArrayEx {
         public static void main(String[] args) {
              String name[]= {"Ram","Shyam","Mohan"};

        Arrays.sort(name);
        System.out.println(Arrays.toString(name));
     }

}
```

Output:

```
[Mohan, Ram, Shyam]
```

6. **Create a class and apply static import package into that class.**

Code:

```
import static java.lang.System.*;
 public class Impstatic {
       public static void main(String[] args) {
         out.println("Sweety Jain");
   }
 }
```

Output:

```
Sweety Jain
```

7. **create a class and create default and param constructor and create constructor chaining.**

Code:

```
public class ConsChain
 {
      public ConsChain(){
       this("Sweety");
       System.out.println("I am default Constructor");
       }
       public ConsChain(String name) {
       System.out.println("I am param constructor");
```

```
        }
        public static void main(String[] args) {
       ConsChain obj= new ConsChain();
    }}
   }
```

Output:

```
I am param constructor
I am default Constructor
```