1. Apply an Object-oriented paradigm using java to develop a standalone application for Number conversion in java. (may be for this we would introduce the basic data types) Level: Intermediate

```
import java.util.Scanner;
public class NumberConverter {
private int number;
private String result;
public NumberConverter(int number) {
  this.number = number;
}
public void toBinary() {
  result = Integer.toBinaryString(number);
}
 public void toHex() {
  result = Integer.toHexString(number);
}
 public void toOctal() {
  result = Integer.toOctalString(number);
}
 public static void main(String[] args) {
  Scanner scanner = new Scanner(System.in);
  System.out.print("Enter a number: ");
  int number = scanner.nextInt();
  NumberConverter converter = new NumberConverter(number);
```

```
System.out.print("Enter the conversion type (binary, hex, octal): ");
String conversionType = scanner.next();
if (conversionType.equals("binary")) {
   converter.toBinary();
} else if (conversionType.equals("hex")) {
   converter.toHex();
} else if (conversionType.equals("octal")) {
   converter.toOctal();
} else {
   System.out.println("Invalid conversion type");
   return;
}
System.out.println("Result: " + converter.result);
}
```