Sample Problems - Set 1

1.Get two values from the user input, width and length of the rectangle, and calculate the rectangle area using formula area = width*length. Output the resulting value showing two digits after the decimal point.

```
import java.util.Scanner;
public class Rectangle {
  public static void main(String[] args){
   Scanner scanner = new Scanner(System.in);
   System.out.print("Enter the width:");
    double width = scanner.nextFloat();
    System.out.print("Enter the length");
    double length = scanner.nextFloat();

     double area = width * length

     System.out.printf("The result area = %.2f ", area);

     scanner.close();
   }
}
```

2.Input three numbers from the user. Use nested "if" statements to print them out in order from the smallest to the largest.

```
import java.util.Scanner;

public class Order {
  public static void main(String[] args){
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter first number");
    double a = scanner.nextInt();
    System.out.print("Enter second number");
    double b = scanner.nextInt();
    System.out.print("Enter third number");
    double c = scanner.nextInt();
    double largest, medium, smallest
    if(a<=b && a<=c){
      smallest = a;
    }else if(b<=c){
      medium = b;
      largest = c;
    }else{
      medium = c;
      largest = b;
    }else if(b<=a && b<=c){
      smallest = b;
    }else if(a<=c){
      medium = a;
      largest = c;
    }else{
      largest = a;
      medium = c;
    }
  }else{
    smallest = c;
    if(a<=c){
      largest = c;
      medium = a;
    }else{
      medium = b;
      largest = a;
    }
  }
```

3.Write a loop that prints “Hello WORLD!” 10 times.

```
public class HelloWorld{
  public static void main(){
    for(int i=0; i<10; i++){
      System.out.println("Hello WORLD");
    }
  }
}
```

4. Use a loop to ask user to input 20 integers, one at a time. Analyze the input as it comes and print out the number only if it is even.

```
import java.util.Scanner;

public class EvenNumbers{
  public static void main(String[] args){
   Scanner scanner = new Scanner(System.in);
   for(int i = 0; i<20; i++){

     System.out.print("Please input an integer");
     int num = scanner.nextInt();
      if(num%2){
        System.out.println("Even number"+num);
      }else{

   }
```