IB Computer Science **Name** :*YoungPrakseth* (3 points)

Spring: Exam 1

1) Write a Java class that prints the following. (10 points)

```
Hola mundo!
```

```
public class Halo{

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

2) Write a method named "counter" that takes two integers, A and B, and prints the numbers from A to B. (20 points)

```
public class counter{

         public void Counter(int a,int b){

  int result = 0;
   while (a <=b){

       result+=a;
       a++;
   }

   System.out.println("The sum of all numbers is "+result);
}
```

3) Write some Java code that will fill an array with the numbers from 10 to 100. (20 points)

```
   public class ArrayPractice
{
       public static void main(String[] args)
    {
        Random random = new Random();
        int[] a = new int[10];
        int i;

        for (i = 0; i < 10; i++)
        {

            a[i] = 1 + random.nextInt(100);

               System.out.print(a[i]+ " ");

    }

}
```

4) Write a method named "average" that will return the average value of an integer array. It should return a double. (20 points)

```
   public static double calcAverage() {

        int sum =0;

        for (int i=0; i < people.lenght; i++)

                    sum = sum + people[i];
```

```
    double calcAverage() = sum / people.lenght


          System.out.println(people.clacAverage());
  }
```

5) Draw the truth table for OR and XOR. (10 points)

6) Write a method for the XOR operator named "xor". It should take two booleans as arguments and return a boolean. (20 points)

7) Explain how to compile and run a program "hello.java" from the command line. (10 points)