Object Oriented Java Programming

1) Program to print "Hello world"

```
Class hello_world
{
    public static void main (String args[])
    {
        System.out.println ("Hello World");
    }
}
                              Output: Hello World
```

2) Program to check if a number is prime or not.

```
class prime
{
    public static void main (String args[])
    {
        int =6;
        int count =0;
        for (int i=2; i<n; i++)
        {
            if (n % i ==0)
            {
                count =1;
                System.out.println ("The number "+n+ " is not prime");
                break;
            }                    Output : The number 2 is prime
        }
        if (count ==0)
        {
            System.out.println ("The number" + n + "is prime ");
        }
```

3) Program to print fibonacci series

```
class Fibonacci {
  public static void main (String args [])
  {
    int n = 6;
    int a = 0; b = 1, c = 1;
    for (int i = 0; i< n; i++)
    {
      System.out.println (a);
      a = b
      b = c
      c = a+b
    }
  }
}
```

Output : 0
          1
          1
          2
          3
          5

4) Program to check if a triangle is scalene, isosceles or equilateral.

```
class triangle
{
  public static void main (String args[])
  {
    int a = 2, b = 2, c = 3;
    if (a==b && b==c)
    System.out.println ("Equilateral");
```

```java
    else if (a==b||b==c||a==c)
    System.out.println("Isoceless");
    else
    System.out.println("Scalene");
    }
}
```

Output: Isoceles

5) Program to calculate simple Interest.

```java
class interest
{
    public static void main (String [] args[])
    {
        int p = 100, r=10, f=5;
        int Si = (p*r*f)/100;
        System.out.println(Si);
    }
}
```

Output: 50

6) Program to swap two numbers.

```java
class Swap
{
    public static void main (String args[])
    {
        int a = 4, b= 6;
        System.out.println("a="+ a +"b="+b+"\n");
        System.out.println("After Swapping = \n");
        int temp = a;
```

```java
a = b;
b = temp;
System.out.println("a = " + a + " b = " + b);
    }
}
```

Output :   a = 4   b = 6
          After Swapping
          a = 6   b = 4