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1) Program to print "Hello World"

↳
```
class test
{
public static void main(String[] args)
{
System.out.println("Hello World");
}
};
```

» D:\CS002>java file1.java
Hello World

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

↳
```
public class Main {
    public static void main(String[] args) {
        int num = 29;
        boolean flag = false;
        if (num == 0 || num == 1) {
            flag = true;
        }
        for (int i=2; i<= num/2; ++i) {
            if (num % i == 0) {
                flag = true;
                break;
            }
        }
    }
```

```
    if (!flag)
        System.out.println(num +
            " is a prime number");
    else
        System.out.println(num +
            " is not a prime number");
  }
}
```

» 29 is a prime number

3) Program to print fibonacci series.

```
class Main {
  public static void main(String[] args) {
    int n=10, n1=0, n2=1;
    System.out.println("Fibonacci
        series till " + n + " terms:");
    for (int i=1; i<=n; ++i) {
      System.out.print(n1 + ", ");
      int n3 = n1 + n2;
      n1 = n2;
      n2 = n3;
    }
  }
}
```

» Fibonacci series till 10 terms:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34,

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

```
public class Tri {
  static void checkTri(int x, int y, int z)
  {
    if (x==y && y==z)
      System.out.println("Equilateral
          Triangle");
    else if (x==y || y==x || z==x)
      System.out.println("Isosceles
          Triangle");
    else if (x!=y || y!=z || z!=x)
      System.out.println("Scalene
          Triangle");
    {
      if (x+y<z || x+z<y || y+z<x
        System.out.println("Not
            a triangle");
      }
    }
  public static void main(String[] args)
    {
      int x=1, y=1, z=30;
```

```
            checkTri (x,y,z);
        }
    }
}
```

» isoceles triangle
Not a triangle

5) Program do calculate simple interest.

↳
```
public class Main{
    public static void main (String args[])
    {
        float p,r,t, si;
        p = 13000; r=12; t=2;
        si = (p*r*t) / 100;
        System.out.println ("simple
            interest is: " + si);
    }
}
```

» simple interest is: 3120.0

6) Program to swap two numbers

↳
```
public class GfG {
    public static void main (String[] args)
    {
        int x=100, y=200;
        System.out.println ("Before swap");
        System.out.println ("x = " + x);
        System.out.println ("y = " + y);

        int temp = x;
        x = y;
        y = temp;

        System.out.println ("After swap");
        System.out.println ("x = " + x);
        System.out.println ("y = " + y);
    }
}
```

» Before swap
x = 100
y = 200
After swap
x = 200
y = 100

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