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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;
            }
        }
```

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```
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 + " term :");

        for (int i=1; i<=n; ++i) {
            System.out.print(n1 + ", ");

            int n3 = n1 + n2;
            n1 = n2;
            n2 = n3;
        }
    }
}
```

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» 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==z || 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;
```

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

» Isoceles triangle
Not a triangle

5) Program to 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;
```

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```
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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