

5. Write a program to calculate the compound interest.

```
import java.lang.Math;
import java.util.*;

public class compound {
    Run | Debug
    public static void main(String[] args){
        double p , n , t;
        double r;
        double c = 0;
        Scanner b = new Scanner(System.in);
        System.out.println(x:"ententer the input: ");
        p = b.nextInt();
        n = b.nextInt();
        t = b.nextInt();
        r = b.nextFloat();

        // logic
        double x = r/n;
        double s = n*t;

        c = p * Math.pow(1+ x, s);

        System.out.println("compound interest: "+ c);
    }
}
```

Output:

```
ententer the input:
1000
4
12
3.4
compound interest: 6.671803271946521E15
PS C:\Users\User\OneDrive\Desktop\school>
```

