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Homework: Class method and variable calling

Question:

- 1. Write a program to calculate cube input will be sent through method arguments
- 2. Write a program to calculate simple interest
- 3. Write a program to calculate compound interest

Answer:

```
public class Qn1_2_3 {
     double cube(double n) {
           return n*n*n;
     }
     double simpleInterest(int p, double r, int t) {
           return (p*r*t)/100;
     }
     double compoundInterest(int p, double r, int t, int n) {
           return p/100*pow(1+r/n,n*t)-p;
     }
     double pow(double x, int y) {
           double ans = 1;
           for(;y>=1;y--)
                 ans*=x;
           return ans;
     }
```

```
public class TestQn1_2_3 {
    public static void main(String[] args) {

    Qn1_2_3 q = new Qn1_2_3();

    int n=2;
    System.out.println(n+"^3 = "+q.cube(n));

    int principal = 100000;
    double interestRate = 10.0;
```

Question:

- 4. The marks obtained by a student in 5 different subjects are input through the method call. The student gets a division as per the following rules:
 - a. Percentage above or equal to 60 First division
 - b. Percentage between 50 and 59 Second division
 - c. Percentage between 40 and 49 Third division
 - d. Percentage less than 40 Fail
 - e. Write a program to calculate the division obtained by the student.

Answer:

```
public class Q4 {
    String studendDivision(int a, int b, int c, int d, int e) {
        double per = (a+b+c+d+e)/5;
        System.out.println("Percentage of Student: "+per);
        if(per>=60)
            return "First division";
        else if(per>=50)
            return "Second division";
        else if(per>=40)
            return "Third division";
        else
            return "Fail";
        }
}
```

```
public class TestQ4 {
    public static void main(String[] args) {
        Q4 s = new Q4();
        System.out.println("Division of student: "+s.studendDivision(55, 60, 80, 90, 40));
    }
}
```