//Method1:

public static void simpleInterest(double bal, double rate)

{

double interest;

interest = bal \* rate;

System.out.println(" #1\_Interest on " + bal + " at " +

rate + " interest rate is " + interest);

}

//Method2:

public static void simpleInterest(double bal, int rate)

// Notice rate type

{

double interest, rateAsPercent;

rateAsPercent = rate/100.0;

// Converts whole number rate to decimal equivalent

interest = bal \* rateAsPercent;

System.out.println(" #2\_Interest on " + bal + " at " + rate + " interest rate is " + interest);

}

//Method3:

public static void simpleInterest(int rate, double bal)

// Notice rate type

{

double interest, rateAsPercent;

rateAsPercent = rate/100.0;

// Converts whole number rate to decimal equivalent

interest = bal \* rateAsPercent;

System.out.println(" #3\_ Interest on " + bal + " at " + rate + " interest rate is " + interest);

}

/\*public static double simpleInterest(int rate, double bal)

{

double interest, rateAsPercent;

rateAsPercent = rate/100.0;

// Converts whole number rate to decimal equivalent

interest = bal \* rateAsPercent;

System.out.println(" #4\_ Interest on " + bal + " at " + rate + " interest rate is " + interest);

return interest;

}

\*/

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

public static void main(String[]args){

//Q1: following code will work why or why not? which method will it print?\

simpleInterest(1000, 0.04);

//yes it will work, because there is an int and a double and it will print method 3

//Q2: following code will work why or why not? which method will it print?

// simpleInterest (1000, 4);

//it will not work, because these numbers can fit in any method, and they will compete

//Q3:following will work why or why not? which method will it print?

//simpleInterest(1000.0, 4);

//yes, because there is a method for a double and an int, method 2

//Q4:following code will work why or why not? which method will print- what will be printer?

// simpleInterest(1000.0, 0.04);

//yes, it will work because there is a method for both doubles, method 1

//#1\_Interest on 1000 at 0.04 interest rate is 40

//Q5: following code will work why or why not? which method will print- what will be printeD?

// simpleInterest(1000, 4);

//it will not work, because these numbers can fit in any method, and they will compete

//it will not print anything

//Q6:What if we added another method above with a method header: public static double simpleInterest( int rate, double bal)

//Would the compiler see it as a different method and be happy :) or not Happy :( Why?

//the compiler would not be happy, because the signature is the same as method 3

//Q7: Write the signature of Method 1 and Method 2

//method 1: simpleInterest(double bal, double rate)

//method 2: simpleInterest(double bal, int rate)

}

}