(2.5 years) Samuel > At lassian Teaching offlin order 1.5 years buth ApMa

t Variables

- Hose who vary
Le change.

let (3= 5;

N= 10

x=15;

x = 4let $y = n^2 + 2n$; y = 24n= 2 # Data-types

long z = 10000000000;

Question 1: In a program, input 3 numbers: A, B and C. You have to output the average of these 3 numbers.

(Hint: Average of N numbers is sum of those numbers divided by N)

```
Scanner scn = new Scanner(System.in);
 6
7
8
9
                int A = scn.nextInt(); => int A = 5;
int B = scn.nextInt(); => int B = 10;
                int C = scn.nextInt();
 10
                int average = (A+B+C)/3;
12
                System.out.println("Average of 3 numbers is: " + average);
13 🕺
14
PROBLEMS
             OUTPUT
                       DEBUG CONSOLE
                                          TERMINAL
samratbhardwaj@Samrats-MacBook-Pro CP % javac Main.java && java Main
5, 10, 6
Average of 3 numbers is: 7
```

Question 2: In a program, input the side of a square. You have to output the area of the square.

(Hint: area of a square is (side x side))

Question 3: Enter cost of 3 items from the user (using float data type) - a pencil, a pen and an eraser. You have to output the total cost of the items back to the user as their bill. (Add on: You can also try adding 18% gst tax to the items in the bill as an advanced problem)

pen fotal - cust = punied + pen + oran $gst = (fotal - cust) \times 0.18$ gst = (fotal - cust) + gst fated - bt = fotal - cust + gst

Question 4: What will be the type of result in the following Java code?

Question 4: What will be the type of result in the following Java code?

```
byte b = 4;
char c = 'a';
short s = 512;
int i = 1000;
float f = 3.14f;
double d = 99.9954;

result = (f * b) + (i % c) - (d * s);
```

(Hint: Look at the largest data type among these)

Question 5: (Advanced) Will the following statement give any error in Java? int \$ = 24;