Q1. Write a java program to print sum of all 2d Array Elements

10	20	30
40	50	60
70	80	90

Sum of All Array Elements: 450

A1 - Notepad

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```
import java.util.Scanner;
class A1{
        public static void main(String args[]){
        int A[][]=new int[3][3];
        int sum=0;
        int r,c;
        Scanner sk=new Scanner(System.in);
        for(r=0;r<3;r++){
                for(c=0;c<3;c++){
        System.out.println("Enter Element "+r+c+" : ");
                A[r][c]=sk.nextInt();
                sum=sum+A[r][c];
                }
        }
        System.out.println("Sum : "+sum);

   }
}
```

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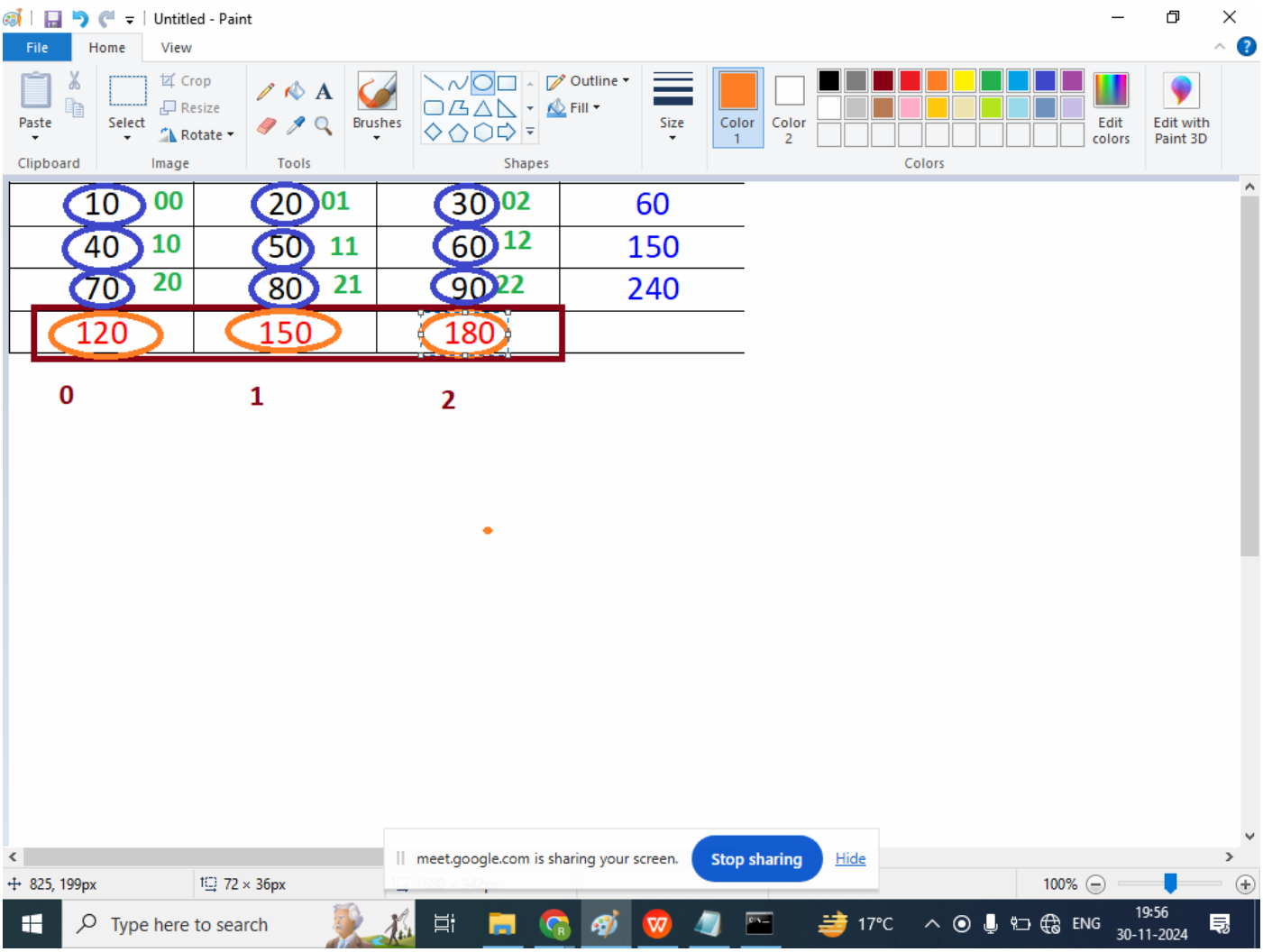
Q1. Write a java program to print row wise sum and column wise sum from the given Array

10	20	30	60
40	50	60	150
70	80	90	240
120	150	180	

```
import java.util.Scanner;
class A1{
	public static void main(String args[]){
	int A[][]=new int[3][3];

	int r,c;
	Scanner sk=new Scanner(System.in);
	for(r=0;r<3;r++){
		for(c=0;c<3;c++){
	System.out.println("Enter Element "+r+c+" : ");
		A[r][c]=sk.nextInt();

		}
	}
	int sum;
	for(r=0;r<3;r++){
	sum=0;
	  for(c=0;c<3;c++){
	  System.out.print("\t"+A[r][c]);//10 20 30
	  sum=sum+A[r][c];
	}
	System.out.println("\t"+sum);
	}
```

```
        int nums[]=new int[3];

        for(r=0;r<3;r++){//r=3
        sum=0;
          for(c=0;c<3;c++){//c=2
          sum=sum+A[c][r];//180
        }
        nums[r]=sum;

        System.out.println("");
        }
        for(int i=0;i<nums.length;i++){
        System.out.print("\t"+nums[i]);
        }


  }
}
```



Matrix Multiplication Formula

1	2	3
4	5	6
7	8	9

9	8	7
6	5	4
3	2	1

?	?	?
?	?	?
?	?	?