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G3 (A)

Program 4 a) Develop a program to accept 5 inputs using command line argument and perform addition of the same. b)Develop programs for implementation of Arrays in JAVA(Matrix addition, subtraction and multiplication)

a) Develop a program to accept 5 inputs using command line argument and perform addition of the same.

Code:

```java
public class COMMANDLINEDEMO
{
    public static void main(String args[])
    {
        int sum=0;

            for(int i =0;i<args.length;i++){
                sum+=Integer.parseInt(args[i]);
            }
            System.out.println("sum is " +sum);
    }
}
```
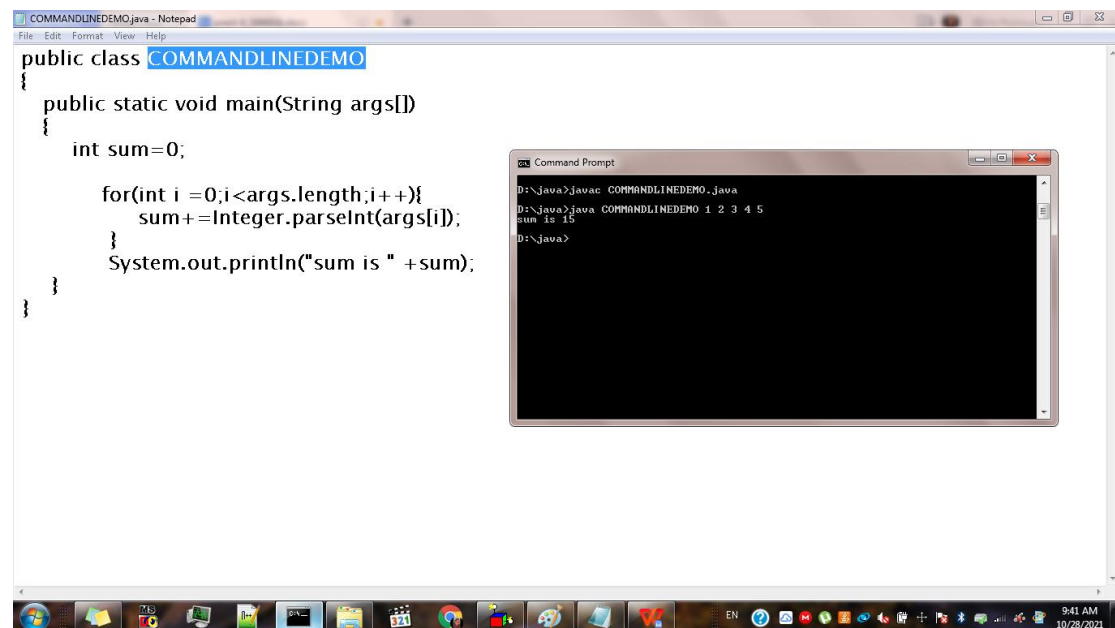
Output:

D:\java>javac COMMANDLINEDEMO.java

D:\java>java COMMANDLINEDEMO 1 2 3 4 5
sum is 15

D:\java>

b) Develop programs for implementation of Arrays in JAVA(Matrix addition, subtraction and multiplication)

CODE

```
import java.util.Scanner;
public class MATRIX{

public static void main(String args[]){

int a[][], b[][], c[][], i,j,k;

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

```java
b = new int[3][3];
c = new int[3][3];

Scanner sc = new Scanner(System.in);

System.out.println("Enter First Matrix");

for(i=0;i<3;i++){
 for(j=0;j<3;j++){
  a[i][j]= sc.nextInt();
 }
}
System.out.println("Enter Second Matrix");
for(i=0;i<3;i++){
 for(j=0;j<3;j++){
  b[i][j]= sc.nextInt();
 }
}
System.out.println("Matrix Addition: ");

for(i=0;i<3;i++){
 for(j=0;j<3;j++){
    c[i][j] = a[i][j] + b[i][j];
        System.out.print(c[i][j] +"\t" );
}
System.out.println();
}

System.out.println("Matrix Substraction: ");

for(i=0;i<3;i++){
 for(j=0;j<3;j++){
    c[i][j] = a[i][j] - b[i][j];
        System.out.print(c[i][j] +"\t" );
}
System.out.println();

}

for(i=0;i<3;i++)
```

```
{
        for(j=0;j<3;j++)
        {
                c[i][j]=0;
                for(k=0;k<3;k++)
                {
                        c[i][j]=c[i][j]+a[i][j]*b[i][j];
                }


        }
}

System.out.println("Matrix Multiplication");
for(i=0;i<3;i++){
 for(j=0;j<3;j++){
        System.out.print(c[i][j] +"\t");
 }
 System.out.println();
}


}


}
```

OUTPUT:

D:\java>javac MATRIX.java

D:\java>java MATRIX
Enter First Matrix
2
2
2
2
2
2
2
2

2

Enter Second Matrix

1

1

1

1

1

1

1

1

1

Matrix Addition:

3   3   3

3   3   3

3   3   3

Matrix Substraction:

1   1   1

1   1   1

1   1   1

Matrix Multiplication

6   6   6

6   6   6

6   6   6

D:\java>