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ROLL NO:- 49

2D ARRAY AND STRING

1] MATRIX ADDITION , SUBTRACTION , MULTIPLICATION

CODE :

```
class Matrix{  
  
    public static void main(String arg[]) {  
  
        int a[][] = {{1,2},{3,4}};  
  
        int b[][] = {{1,2},{3,4}};  
  
        int c[][] = new int[2][2];  
  
        int i,j,k;  
  
        System.out.println("\nGiven A Matrix is...");  
  
        for(i=0;i<2;i++)  
  
        {  
  
            for(j=0;j<2;j++)  
  
            {  
  
                System.out.print(a[i][j]+\t");  
  
            }  
  
            System.out.println("\n");  
  
        }  
  
        System.out.println("\nGiven B Matrix is...");  
  
        for(i=0;i<2;i++)  
  
        {  
  
            for(j=0;j<2;j++)  
  
        }
```

```
{  
System.out.print(b[i][j]+\t");  
}  
  
System.out.println("\n");  
}  
  
for(i=0;i<2;i++)  
{  
for(j=0;j<2;j++)  
{  
c[i][j] = a[i][j] + b[i][j];  
}  
}  
  
System.out.println("\nMatrix Addition is...");  
for(i=0;i<2;i++)  
{  
for(j=0;j<2;j++)  
{  
System.out.print(c[i][j]+\t");  
}  
}  
  
System.out.println("\n");  
}  
  
for(i=0;i<2;i++)  
{  
for(j=0;j<2;j++)  
{
```

```
c[i][j] = a[i][j] - b[i][j];  
}  
}  
  
System.out.println("\nMatrix Subtraction is...");  
  
for(i=0;i<2;i++)  
{  
    for(j=0;j<2;j++)  
    {  
        System.out.print(c[i][j]+\t");  
    }  
  
    System.out.println("\n");  
}  
  
for(i=0;i<2;i++)  
{  
    for(j=0;j<2;j++)  
    {  
        for(k=0;k<2;k++)  
        {  
            c[i][j] = c[i][j] + a[i][k] * b[k][j];  
        }  
    }  
}  
  
System.out.println("\nMatrix Multiplication is...");  
  
for(i=0;i<2;i++)  
{
```

```
for(j=0;j<2;j++)  
{  
    System.out.print(c[i][j]+"\t");  
}  
System.out.println("\n");  
}  
}
```

OUTPUT:

```
C:\Users\yedu0\OneDrive\Documents\java>java Matrix.java

Given A Matrix is...
1      2
3      4

Given B Matrix is...
1      2
3      4

Matrix Addition is...
2      4
6      8

Matrix Subtraction is...
0      0
0      0

Matrix Multiplication is...
7      10
15     22
```

2]STRING CONCAT

CODE :

```
class Stringmal
{
    public static void main(String args [])
    {
        String s1="Pradeep";
```

```
String s2="Rathod";
String s3=s1.concat(s2);
System.out.println(s3);
}
}
```

OUTPUT :

```
C:\Users\yedu0\OneDrive\Documents\java>javac Stringmal.java
C:\Users\yedu0\OneDrive\Documents\java>java Stringmal.java
PradeepRathod
```

3]STRING EXAMPLE

CODE :

```
class Stringexample
{
public static void main(String args[])
{
String s1="java";
char ch[]={s','t','r','i','n','g'};
String s2=new String(ch);
String s3=new String("example");
System.out.println(s1);
System.out.println(s2);
System.out.println(s3);
}
}
```

```
C:\Users\yedu0\OneDrive\Documents\java>javac stringexample.java  
C:\Users\yedu0\OneDrive\Documents\java>java stringexample.java  
java  
string  
example
```

4]STRING SIZE

CODE :

```
class Stringsize  
{  
    public static void main(String[] args)  
    {  
        String str ="Pradee Rathod";  
        System.out.println(" The size of "+ "the string is:"+str.length());  
    }  
}
```

OUTPUT :

```
C:\Users\yedu0\OneDrive\Documents\java>javac stringsize.java  
C:\Users\yedu0\OneDrive\Documents\java>java stringsize.java  
The size of the string is:13
```