

EXPERIMENT 6

1)1D Array

code:

```
import java.util.Scanner;

class Array
{
    public static void main(String[] args)
    {
        int i, n;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Number of elements in an Array :");
        n = sc.nextInt();
        int Array[] = new int[n];
        System.out.println("Enter the elements :");
        for(i=0;i<n;i++)
        {
            Array[i]=sc.nextInt();
        }
        System.out.println("elements in the array are:");
        for(i=0;i<n;i++)
        {
            System.out.println(Array[i]);
        }
    }
}
```

OUTPUT:

```
Microsoft Windows [Version 10.0.22631.4169]
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C:\Users\Sharvari A Bhondekar>cd/

C:\>cd "C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6"

C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>javac Array.java

C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>java Array.java
Enter Number of elements in an Array :
5
Enter the elements :
1 2 3 4 5
elements in the array are:
1
2
3
4
5
```

2)2D Array

code:

```
import java.util.Scanner;

class Matrix
{
    public static void main(String[] args)
    {
        int i,j,r,c;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Number of rows :");
        r = sc.nextInt();
        System.out.println("Enter number of columns:");
        c = sc.nextInt();
        int Matrix[][]= new int[r][c];
        System.out.println("Enter the elements :");
        for(i=0;i<r;i++) { for(j=0;j<c;j++)
        {
```

```

Matrix[i][j]=sc.nextInt();
}
System.out.println(" ");
}
System.out.println("elements in the array are:");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
System.out.print(Matrix[i][j] + " ");
}
System.out.println(" ");
}
}
}
}

```

OUTPUT:

```

C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>javac Matrix.java
C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>java Matrix.java
Enter Number of rows :
2
Enter number of columns:
2
Enter the elements :
1
2
3
4
elements in the array are:
1 2
3 4

```

3)STRINGS

code:

```
class Work
```

```
{
int id; String name;
Work(String s, int i)
{
id=i;
name=s;
}
public static void main(String args[])
{
Work work=new Work("Sharvari",06);
System.out.println("Emp name:\t"+ work.name+"\tid: \t"+work.id);
}
}
```

OUTPUT:

```
C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>javac Work.java
C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>java Work.java
Emp name:      Sharvari      id:      6
C:\Users\Sharvari A Bhondekar\OneDrive\Desktop\JAVA PROGRAMS\Exp 6>
```