

Practical 22

Aim : Write a recursive method that returns the smallest integer in an array. Write a test program that prompts the user to enter an integer and display its product.

Code :

```
import java.util.*;

class Practical22{

    public static void main(String[] args)
    {
        Scanner v = new Scanner(System.in);

        System.out.println("Enter elements : ");
        int[] a=new int[5];
        for(int i=0;i<a.length;i++){
            a[i]=v.nextInt();
        }

        int n = MinValue(a,0);

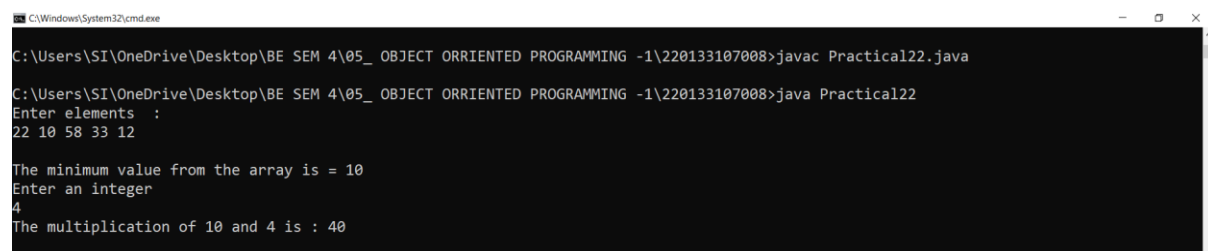
        System.out.println("\nThe minimum value from the array is = "+n);

        System.out.println("Enter an integer");

        int num=v.nextInt();

        System.out.println("The multiplication of "+n+" and "+num+" is :
        "+(num*n));
    }
}
```

```
public static int MinValue(int [] a,int i){  
  
    if(i== a.length-1)  
        return a[i];  
    int val=MinValue(a,i+1);  
  
    if(a[i]<val)  
        return a[i];  
    else  
        return val;  
    }  
}
```



The screenshot shows a Windows command prompt window with the following text:

```
C:\Windows\System32\cmd.exe  
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Practical22.java  
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>java Practical22  
Enter elements :  
22 10 58 33 12  
  
The minimum value from the array is = 10  
Enter an integer  
4  
The multiplication of 10 and 4 is : 40
```