# Experiment No. 10

## Aim

Demonstrate the Concept of Abstraction in Java.

## Source code

```
package java_file;

abstract class Result {

    abstract float percentage(float x[]);

    abstract float sum(float x[]);


    void display(float a[]) {

            System.out.println("Your Scores...");

            System.out.println("OOC \t::\t"+a[0]);

            System.out.println("DBMS \t::\t"+a[1]);

            System.out.println("IMP \t::\t"+a[2]);

            System.out.println("DMF \t::\t"+a[3]);

            System.out.println("CPS \t::\t"+a[4]);

            System.out.println("\nYour Percentage is "+percentage(a));

    }

}


class Working extends Result {

    float percentage(float x[]) {

            float per=(sum(x)/500)*100;

            return per;

    }
```

```java
    float sum(float x[]) {

            float temp=0;

            for(int i=0;i<x.length;i++)

                    temp+=x[i];

            return temp;

    }

}


public class _10_Abstraction {


    public static void main(String[] args) {

            float arr[]= {91,84,65,50,77};

            Working obj=new Working();

            obj.display(arr);

    }


}
```
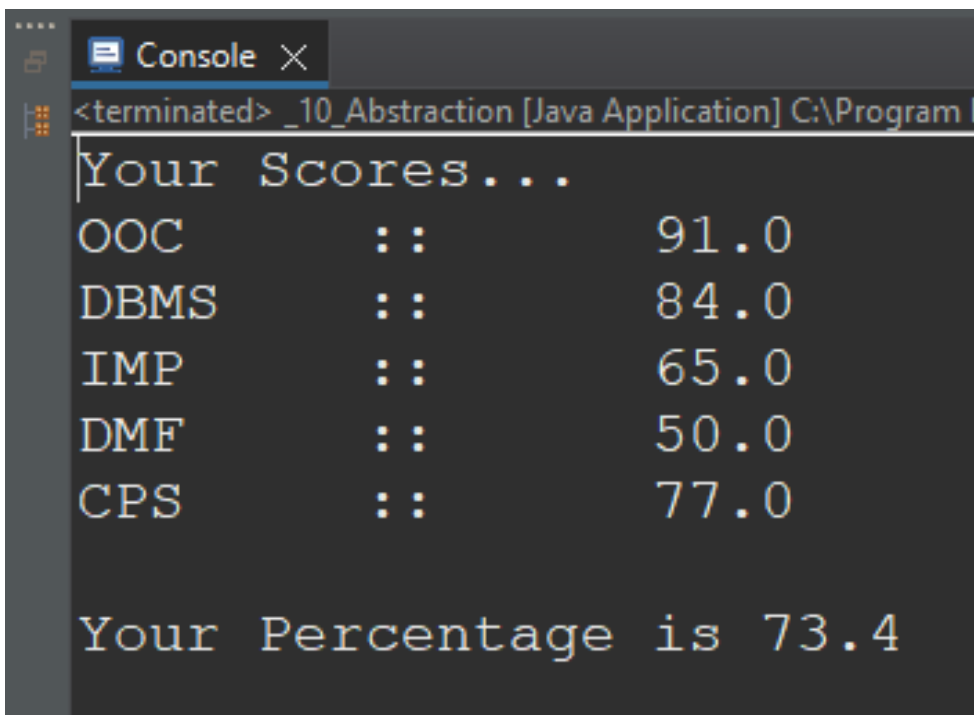
**Output**