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Practical 14

Aim: Write a program that creates an Array List and adds a Loan object, a Date object, a string, and a Circle object to the list, and use a loop to display all elements in the list by invoking the object's to String() method.

Code:

```
Loan.java
public class Loan
private double Rate;
private int NoYrs;
private double Amount;
public Loan() {
       this (2.5, 1, 1000);
}
public Loan(double r, int n,double p) {
       this. Rate = 1;
       this.NoYrs = n;
       this.Amount = p;
}
Circle.java
class Circle
{
       double radius;
       Circle(){}
       Circle(double r)
               radius=r;
```

```
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       }
       void Area(){
              double area;
              System.out.println("\n Radius of circle = "+radius);
              area=3.14*radius*radius;
              System.out.println("\n Area of Circle = "+area);
       }
       public static void main(String args[])
              Circle obj=new Circle(10);
              obj.Area();
               }
Practial14.java
import java.util.ArrayList;
import java.util.Date;
class Practical14
{
       public static void main(String args[])
       ArrayList<Object> obj = new ArrayList<Object>();
       obj.add(new Loan());
```

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Output:

```
C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Loan.java

C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Circle.java

C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Practical14.java

C:\Users\SI\OneDrive\Desktop\BE SEM 4\05_ OBJECT ORRIENTED PROGRAMMING -1\220133107008>javac Practical14

Loan@15db9742

Fri Apr 14 20:00:39 IST 2023

My String Class

Circle@5c647e05
```