

Assignment:

```
1.public class Main
{
    public static long factorial(int i)
    {
        return (i < 1) ? 1 : i * factorial(i - 1);
    }

    public static void main(String[] args)
    {
        System.out.println("Author:T.vyjayanthi\nSAP ID:51834774");
        int i = 5;
        System.out.println("The Factorial of " + i + " is " + factorial(i));
    }
}
```

3.abstract class Bank

```
{
    abstract int getBalance();
}

class BankA extends Bank
{
```

```
int deposit=100;

int getBalance()
{
    return deposit;
}

class BankB extends Bank
{
    int deposit=150;

    int getBalance()
    {
        return deposit;
    }
}

class BankC extends Bank
{
    int deposit=200;

    int getBalance()
    {
        return deposit;
    }
}

class Main
{
    public static void main(String args[])
}
```

```
{  
    System.out.println("Author:T.vyjayanthi\nSAP ID:51834774");  
    //object for Bank A  
    BankA i=new BankA();  
    System.out.println("Balance in Bank A: "+i.getBalance());  
  
    //object for Bank B  
    BankB j=new BankB();  
    System.out.println("Balance in Bank B: "+j.getBalance());  
  
    //object for Bank C  
    BankC k=new BankC();  
    System.out.println("Balance in Bank C: "+k.getBalance());  
  
}  
}  
}
```

```
5.import java.util.Scanner;
```

```
public class Main  
{  
    int Id;  
    String Name;  
    int Age;
```

```
long Salary;

void GetData()      // Defining GetData()
{
    Scanner sc = new Scanner(System.in);

    System.out.print("\n\tEnter Employee Id : ");
    Id = Integer.parseInt(sc.nextLine());

    System.out.print("\n\tEnter Employee Name : ");
    Name = sc.nextLine();

    System.out.print("\n\tEnter Employee Age : ");
    Age = Integer.parseInt(sc.nextLine());

    System.out.print("\n\tEnter Employee Salary : ");
    Salary = Integer.parseInt(sc.nextLine());
}

void PutData()      // Defining PutData()
{
    System.out.print("\n\t" + Id + "\t" + Name + "\t" + Age + "\t" + Salary);
}
```

```
public static void main(String args[])
{
    System.out.println("Author: T.vyjayanthi\nSAP ID:519834774");
    Main[] M = new Main[10];
    int i;

    for(i=0;i<10;i++)
        M[i] = new Main(); // Allocating memory to each object

    for(i=0;i<10;i++)
    {
        System.out.print("\nEnter details of "+(i+1)+" Employee\n");
        M[i].GetData();
    }

    System.out.print("\nDetails of Employees\n");
    for(i=0;i<10;i++)
        M[i].PutData();

    }
}
```