

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();

    }
}
```