Code Playground

```java
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. Nancy Florence\nSAP ID:51834501");
    int i = 5;
    System.out.println("The Factorial of " + i + " is " + factorial(i));
  }
}
```

TAB { } : " = RUN

Code Playground

OUTPUT

```
Author. Nancy Florence
SAP ID:51834501
The Factorial of 5 is 120
```

```java
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:Nancy Florence\nSAP ID:51834501");
  //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: "+i.getBalance());
```

OUTPUT

```
Author:Nancy Florence
SAP ID:51834501
Balance in Bank A: 100
Balance in Bank B: 150
Balance in Bank C: 200
```

```java
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);
        }
```

```
            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:Nancy
Florence\nSAP ID:51834501");
            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<3;i++)
                M[i].PutData();

        }
    }
```