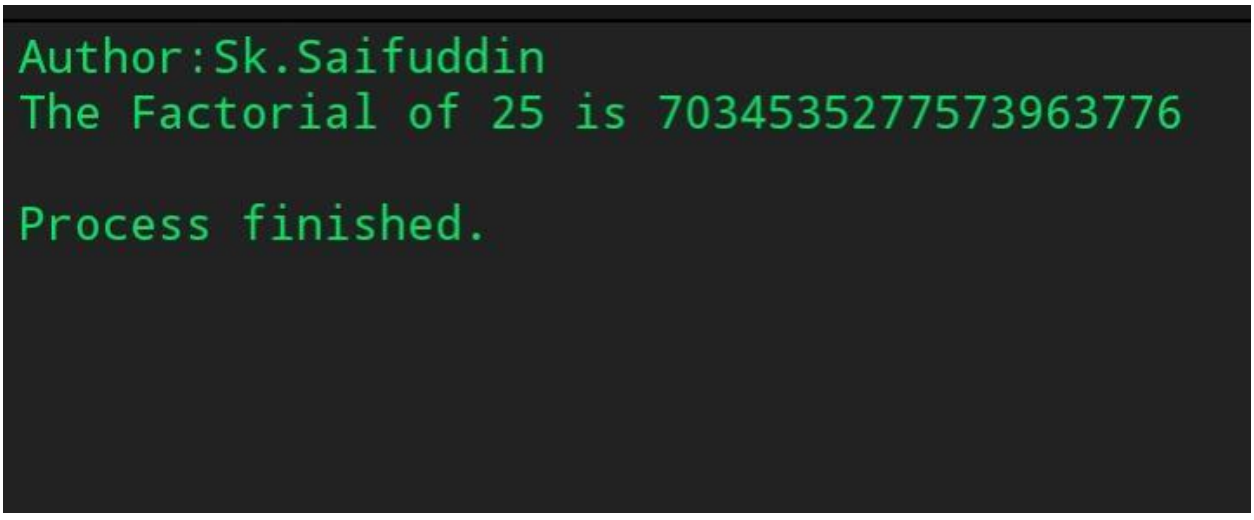
1)

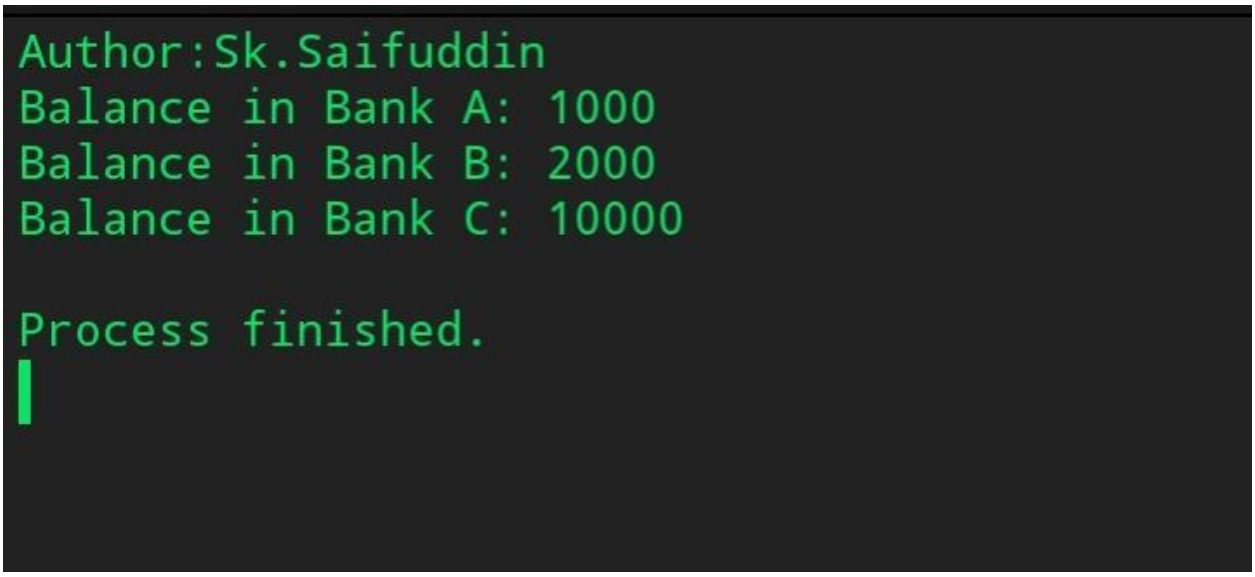
```
public class Main
{
  public static long factorial(int i)
  {
    return (i < 1) ? 1 : i * factorial(i - 1);
  }

  public static void main(String[] args)
  {
    System.out.println("Author:Sk.Saifuddin");
    int i = 25;
    System.out.println("The Factorial of " + i + " is " + factorial(i));
  }
}
```



3)

```
abstract class Bank
{
 abstract int getBalance();
}
class BankA extends Bank
{
 int deposit=1000;
 int getBalance()
 {
  return deposit;
 }
}
class BankB extends Bank
{
 int deposit=2000;
 int getBalance()
 {
  return deposit;
 }
}
class BankC extends Bank
{
 int deposit=10000;
 int getBalance()
 {
  return deposit;
 }
}
```

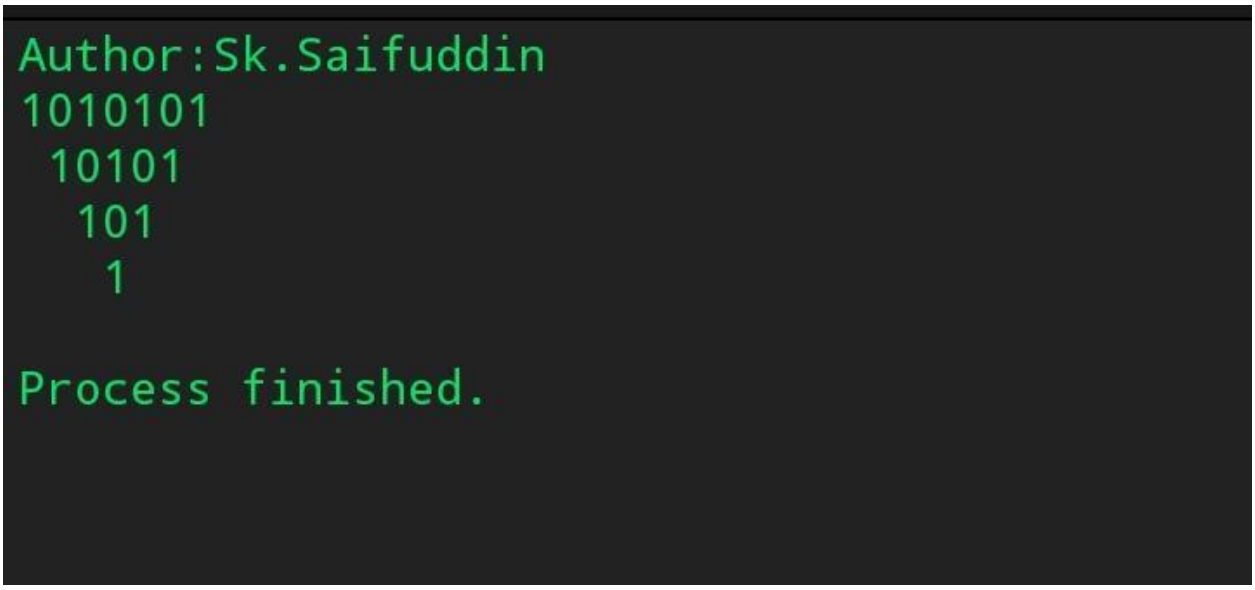
```
class Main
{
 public static void main(String args[])
 {
  System.out.println("Author:Sk.Saifuddin");
  BankA i=new BankA();
  System.out.println("Balance in Bank A: "+i.getBalance());

  BankB j=new BankB();
  System.out.println("Balance in Bank B: "+j.getBalance());
  BankC k=new BankC();
  System.out.println("Balance in Bank C: "+k.getBalance());

 }
}
```



4)

```
import java.util.Scanner;
 class Pattern
 {
   public static void main(String args[])
   {
     System.out.println("Author:Sk.Saifuddin");
     Scanner sc=new Scanner(System.in);
     for(int i=4;i>=1;i--)
     {
       for(int j=4;j>i;j--)
       {
         System.out.print(" ");
       }
       for(int j=2*i-1;j>=1;j--)
       {
         if(j%2==0)
         {
           System.out.print("0");
         }
         else
         {
           System.out.print("1");
         }
       }
       System.out.println();
     }
   }
```

}



5)

```
import java.util.Scanner;

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

```
void GetData()
{

   Scanner sc = new Scanner(System.in);

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

   System.out.print("Enter Employee Name : ");
   Name = sc.nextLine();

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

   System.out.print("Enter Employee Salary : ");
   Salary = Integer.parseInt(sc.nextLine());

}

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

public static void main(String args[])
{

   System.out.println("Author:Sk.Saifuddin");
```

```
    Main[] M = new Main[10];
    int i;

    for(i=0;i<10;i++)
        M[i] =  new Main();

    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();

}
```

```
}
```

```
Author:Sk.Saifuddin

Enter details of 1 Employee
Enter Employee Id : 1
Enter Employee Name : saifuddin
Enter Employee Age : 20
Enter Employee Salary : 10000

Enter details of 2 Employee
Enter Employee Id : 2
Enter Employee Name : sai
Enter Employee Age : 19
Enter Employee Salary : 10000

Enter details of 3 Employee
Enter Employee Id : 3
Enter Employee Name : mahesh
Enter Employee Age : 20
Enter Employee Salary : 10000

Enter details of 4 Employee
Enter Employee Id : 4
Enter Employee Name : surya
Enter Employee Age : 20
Enter Employee Salary : 10000

Enter details of 5 Employee
Enter Employee Id : 5
Enter Employee Name : charan
Enter Employee Age : 20
Enter Employee Salary : 10000
```

```
Enter details of 6 Employee
Enter Employee Id : 6
Enter Employee Name : vamsi
Enter Employee Age : 19
Enter Employee Salary : 10000

Enter details of 7 Employee
Enter Employee Id : 7
Enter Employee Name : chandu
Enter Employee Age : 20
Enter Employee Salary : 10000

Enter details of 8 Employee
Enter Employee Id : 8
Enter Employee Name : rajesh
Enter Employee Age : 20
Enter Employee Salary : 10000

Enter details of 9 Employee
Enter Employee Id : 9
Enter Employee Name : suresh
Enter Employee Age : 20
Enter Employee Salary : 10000

Enter details of 10 Employee
Enter Employee Id : 10
Enter Employee Name : jayanth
Enter Employee Age : 19
Enter Employee Salary : 10000
```

```
Details of Employees

 1 saifuddin 20 10000
 2 sai 19 10000
 3 mahesh 20 10000
 4 surya  20 10000
 5 charan 20 10000
 6 vamsi  19 10000
 7 chandu 20 10000
 8 rajesh  20 10000
 9 suresh 20 10000
 10 jayanth 19 10000
Process finished.
```