

```
1 //1st question
2 import java.util.Scanner;
3 class Main
4 {
5     public static void main(String args[])
6     {
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Ch.Ramana Rohith\n51834534");
9         while(true)
10        {
11            System.out.println("Choose one option among two:\n1.To find factorial\n2.Exit");
12            int op=sc.nextInt();
13            switch(op)
14            {
15                case 1:
16                    System.out.println("Enter num to find factorial");
17                    int num=sc.nextInt();
18                    long factorial=1;
19                    for(int i=1;i<=num;i++)
20                    {
21                        factorial *=i;
22                    }
23                    System.out.println(factorial);
24                    break;
```

```
case 2:  
    System.exit(0);  
default :  
    System.out.println("invalid option");  
}  
}
```

5

120

Choose one option among two:

1. To find factorial

2. Exit

i

Enter num to find factorial

```
1 //4th question
2 import java.util.Scanner;
3 class Pattern
4 {
5     public static void main(String args[])
6     {
7         Scanner sc=new Scanner(System.in);
8         System.out.println("Ch.Ramana Rohith\n51834534");
9         System.out.println("Enter the number of rows : ");
10        int n=sc.nextInt();
11        for(int i=n;i>=1;i--)
12        {
13            for(int j=n;j>i;j--)
14            {
15                System.out.print(" ");
16            }
17            for(int j=2*i-1;j>=1;j--)
18            {
19                if(j%2==0)
20                {
21                    System.out.print("0");
22                }
23            }
24        }
25    }
26 }
```

```
23         else
24     {
25         System.out.print("1");
26     }
27 }
28 System.out.println();
29 }
30 }
31 }
```

Ch. Ramana Rohith  
51834534

Enter the number of rows :

5

101010101

1010101

10101

101

1

...Program finished with exit code 0  
Press ENTER to exit console.

```
//3rd question
interface Bank
{
    public void getBalance();
}
class BankA implements Bank
{
    public void getBalance()
    {
        System.out.println("$100 deposited in BankA");
    }
}
class BankB implements Bank
{
    public void getBalance()
    {
        System.out.println("$150 deposited in BankB");
    }
}
class BankC implements Bank
{
    public void getBalance()
    {
        System.out.println("$200 deposited in BankC");
    }
}
```

```
27 * class Main{  
28     public static void main(string args[])  
29     {  
30         System.out.println("Ch.Ramana Rohith\n51834534");  
31         BankA a=new BankA();  
32         BankB b=new BankB();  
33         BankC c=new BankC();  
34         a.getBalance();  
35         b.getBalance();  
36         c.getBalance();  
37     }  
38 }
```

Ch. Ramana Rohith

51834534

\$100 deposited in BankA

\$150 deposited in BankB

\$200 deposited in BankC

... Program finished with exit code 0

Press ENTER to exit console.