

## Dakshayani\_july\_25

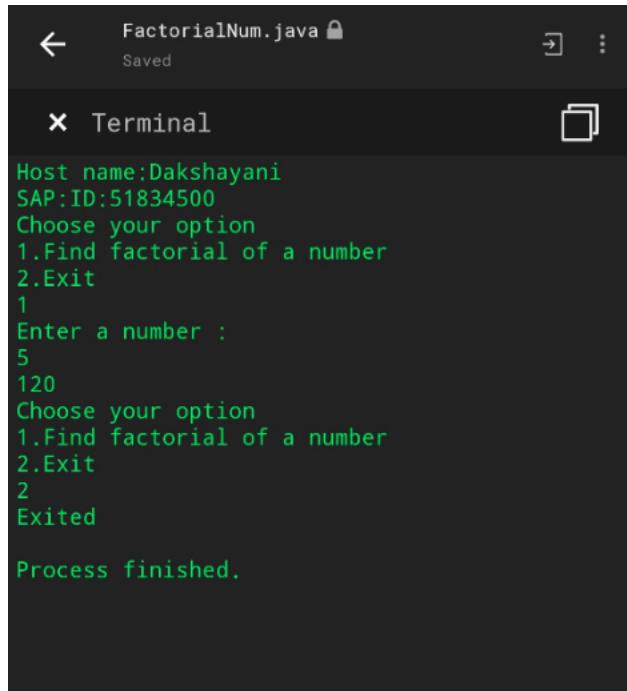
### 1st question and answer

```
FactorialNum.java 
Saved

1
2 t java.util.Scanner;
3 s FactorialNum
4
5 atic long factorial(int n)
6
7 int fact=1;
8 for(int i=n;i>=1;i--)
9 {
10   fact=fact*i;
11 }
12 return fact;
13
14 blic static void main(String args[])
15
16 Scanner sc=new Scanner(System.in);
17 System.out.println("Host name:Dakshayani\nSAP:ID:51
18 while(true)
19 {
20   System.out.println("Choose your option\n1.Find fa
21   int option=sc.nextInt();
22   switch(option)
23   {
24     case 1 :
25       System.out.println("Enter a number : ");
26       int num=sc.nextInt();
27       System.out.println(FactorialNum.factorial(num
28       break;
29     case 2 :
30       System.out.println("Exited");
31       System.exit(0);
32     default :
33       System.out.println("Invalid input");
34   }
35 }
36
37
```



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A screenshot of a terminal window titled "FactorialNum.java". The window shows the following text output:

```
Host name:Dakshayani
SAP:ID:51834500
Choose your option
1.Find factorial of a number
2.Exit
1
Enter a number :
5
120
Choose your option
1.Find factorial of a number
2.Exit
2
Exited

Process finished.
```

3rd question and answer



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```
← Bank.java 🔒 Saved :  
2 abstract class Bank  
3 {  
4     abstract int getBalance();  
5 }  
6 class BankA extends Bank  
7 {  
8     int deposit=100;  
9     int getBalance()  
10    {  
11        return deposit;  
12    }  
13 }  
14 class BankB extends Bank  
15 {  
16     int deposit=150;  
17     int getBalance()  
18     {  
19         return deposit;  
20     }  
21 }  
22 class BankC extends Bank  
23 {  
24     int deposit=200;  
25     int getBalance()  
26     {  
27         return deposit;  
28     }  
29 }  
30 class Main  
31 {  
32     public static void main(String args[])  
33     {  
34         System.out.println("Host name:Dakshayani\nSAP ID:  
35         //object for BankA  
36         BankA i=new BankA();  
37         System.out.println("Balance in BankA: "+i.getBalanc  
38         //object for BankB  
39         BankB j=new BankB();  
40         System.out.println("Balance in BankB: "+j.getBalanc  
41         //object for BankC  
42         BankC k=new BankC();  
43         System.out.println("Balance in BankC: "+k.getBalanc  
44     }  
45 }  
46  
47 Output:
```

```
← Bank.java 🔒 Saved :  
X Terminal   
Host name:Dakshayani  
SAP ID:51834500  
Balance in BankA: 100  
Balance in BankB: 150  
Balance in BankC: 200  
  
Process finished.
```

4th question and answer



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```
Pattern10.java  Saved : 
```

```
1 import java.util.Scanner;
2 class Patter10
3 {
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         System.out.println("Host name:Dakshayani\nSAP:ID:51834500");
8         System.out.println("Enter the number of rows :");
9         int n=sc.nextInt();
10        for(int i=n;i>=1;i--)
11        {
12            for(int j=n;j>i;j--)
13            {
14                System.out.print(" ");
15            }
16            for(int j=2*i-1;j>=1;j--)
17            {
18                if(j%2==0)
19                {
20                    System.out.print("0");
21                }
22                else
23                {
24                    System.out.print("1");
25                }
26            }
27            System.out.println();
28        }
29    }
30 }
```

 Terminal 

```
Host name:Dakshayani
SAP:ID:51834500
Enter the number of rows :
5
101010101
1010101
10101
101
1

Process finished.
```



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