Question -4

```java
1  public class Pattren
2  {
3      public static void
   main(String[] args) {
4
   System.out.println("k.baba");
5          System.out.println("sap id:
   51834564\n");
6      int val=1;
7      for(int i=0;i<7;i++)
8      {
9      for(int j=1;j<i;j++)
10     {
11
12     System.out.print(val);
13     val++;
14      }
15      System.out.print("\n");
16       }
17  }
18  }
```

Terminal

```
k.baba
sap id:51834564


1
23
456
78910
1112131415

Process finished.
```

Question -3

```java
/*create a house
have  abstract functions that all
house have (as per your choice)
create a class <your_house_name>
implement house class*/

abstract class House{
public abstract void tv();
public abstract void ac();
public abstract void sofa();
}
 public class MyHome extends House{
public void tv(){
System.out.println("tv: i am
playing horror movie..\n");
 }
public void ac(){
System.out.println("ac:i am
wworking all day and night\n");
}
public void sofa(){
System.out.println("sofa:he was
sitting on me all day long.....
\n");
}
 public static void main (String
args[]){
System.out.println("k.baba");
System.out.println("sap id:
51834564");
House obj=new MyHome();
obj.tv();
obj.ac();
obj.sofa();
}
}
```

Question-5

```java
import java.util.Scanner;
public class My
{
    public static void main(String[] args)
    {
        int n;
        String temp;
        Scanner s = new Scanner(System.in);

        System.out.println("k.baba");
        System.out.println("sap id: 51834564");
        System.out.print("Enter number of names you want to enter:");
        n = s.nextInt();
        String names[] = new String[n];
        Scanner s1 = new Scanner(System.in);
        System.out.println("Enter all the names:");
        for(int i = 0; i < n; i++)
        {
            names[i] =
```

```java
16              for(int i = 0; i < n; i++)
17              {
18                  names[i] =
    s1.nextLine();
19              }
20              for (int i = 0; i < n; i++)
21              {
22                  for (int j = i + 1; j <
    n; j++)
23                  {
24                      if
    (names[i].compareTo(names[j])>0)
25                      {
26                          temp =
    names[i];
27                          names[i] =
    names[j];
28                          names[j] =
    temp;
29                      }
30                  }
31              }
32              System.out.print("Names in
    Sorted Order:");
33              for (int i = 0; i < n - 1;
    i++)
```

```java
32              System.out.print("Names in
    Sorted Order:");
33              for (int i = 0; i < n - 1;
    i++)
34              {
35
    System.out.print(names[i] +" ");
36              }
37              System.out.print(names[n -
    1]);
38          }
39  }
```

```
Terminal

k.baba
sap id:51834564
Enter number of names you want to enter:4
Enter all the names:
baba
abhi
is
good
Names in Sorted Order:abhi baba good is
Process finished.
```