B. Dakshayani_july_31

2nd question and answer

```
abstract class Furniture {

protected String color;
protected int width;
protected int height;
public abstract void accept();
public abstract void display();
}

class chair extends Furniture {
private int numOf_legs;

public void accept() {

color = "Brown";
width = 36;
height = 48;
numOf_legs = 4;
}

public void display() {
System.out.println("DISPLAYING VALUE FOR CHAIR");
System.out.println("Color is" + color);
System.out.println("Height is" + width);
System.out.println("Height is" + height);
System.out.println("Number of legs is" + numOf_le
System.out.println("");
}
}

class Bookshelf extends Furniture {

color = "Black";
width = 72;
height = 84;
numOf_shelves = 4;
}

public void display () {
System.out.println("DISPLAYING VALUES FOR BOOKSP
System.out.println("DISPLAYING VALUES FOR BOOKSP)
System.out.println("DISPLAYING VALUES FOR BOOKSP)
```

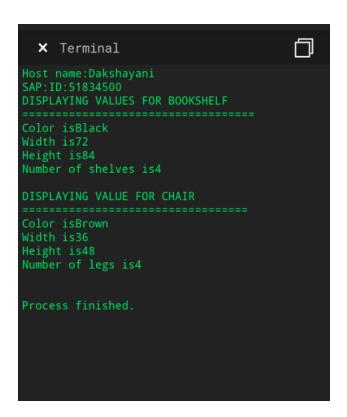
```
class Bookshelf extends Furniture {
    private int numOf_shelves;
    public void accept() {
        color ="Black";
        width = 72;
        height = 84;
        numOf_shelves = 4;
    }
    public void display () {
        System.out.println("DISPLAYING VALUES FOR BOOKSHED System.out.println("Color is" + color);
        System.out.println("Width is" + width);
        System.out.println("Height is" + height);
        System.out.println("Number of shelves is" + numO1 System.out.println("Number of shelves is" + numO1 System.out.println("");
    }
}

class FurnitureDemo {
    public static void main(String[] args)

{
        System.out.println("Host name:Dakshayani\nSAP: b1.accept();
        b1.display();

        chair c1 = new chair ();
        c1.accept();
        c1.display();

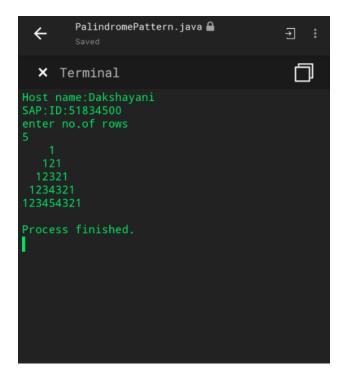
}
```



3rd question and answer

4th question and answer

```
PalindromePattern.java 🖴
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import java.util.*;
public class PalindromePattern
{
         public static void main(String[] args)
                  int i,j,k;
Scanner sc=new Scanner(System.in);
System.out.println("Host name:Dakshayani
System.out.println("enter no.of rows");
                 int n=sc.nextInt();
                      //inotializing k as one
k=1;
for(j=0; j<(n+i); j++)</pre>
                                    if(j \le n-i-1)
                                   if(j<n-i-1)
//prints space in the less than n-i-
    System.out.print(" ");
else
{
    // else prints k
        System.out.print(+ k);
        if(j<(n-1))
    // if j is greater than n-1
        //increases to k+1
        k++</pre>
                                                       k++;
                             System.out.println(" ");
```



Mock assignment

Marks:-15