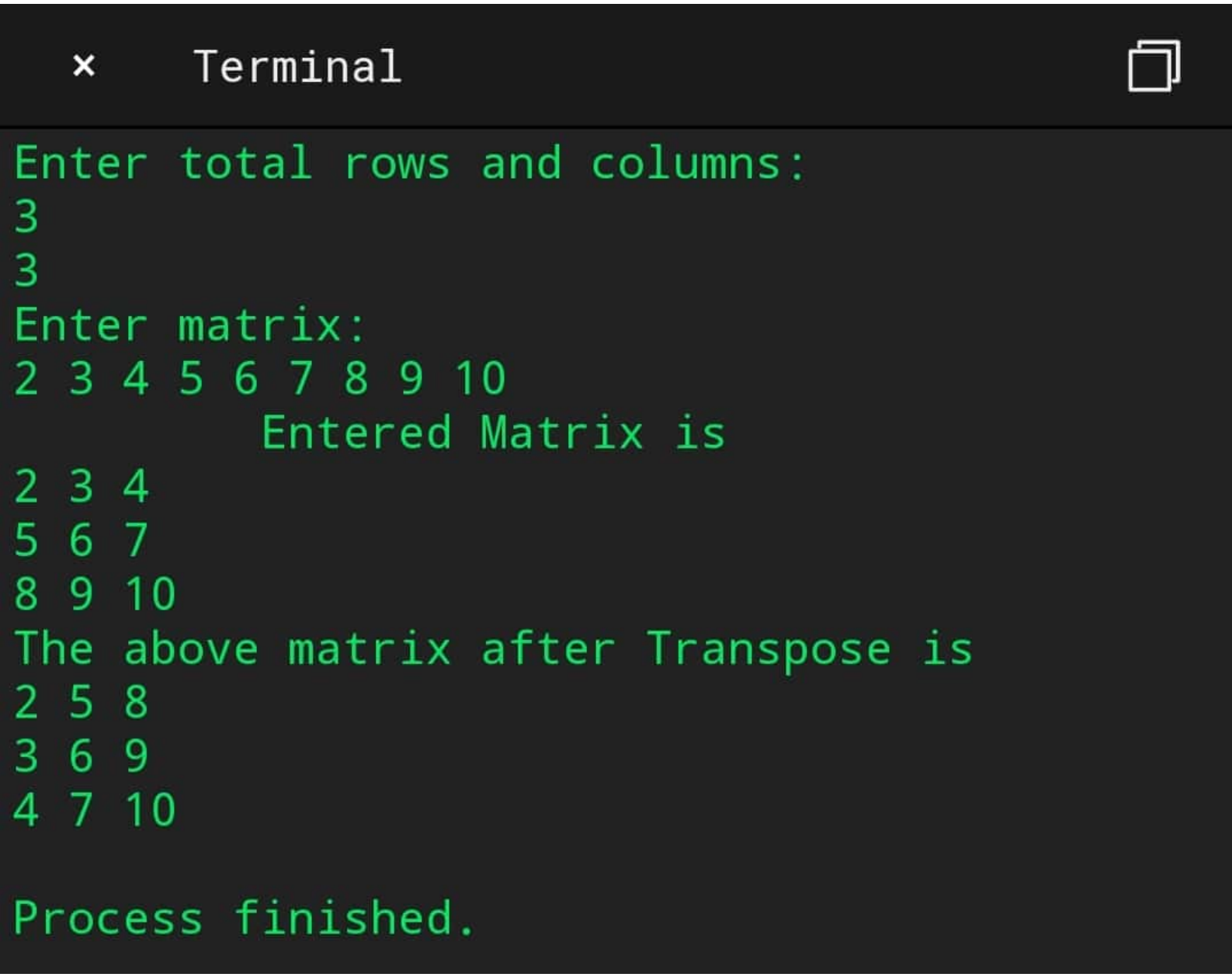
TransposeMatrix.java

Saved

```java
import java.util.Scanner;
public class MatrixTransposeExample2
{
    public static void main(String args[])
    {
    int i, j;
    System.out.println("Enter total rows and columns: ");
    Scanner s = new Scanner(System.in);
    int r = s.nextInt();
    int c = s.nextInt();
    int array[][] = new int[r][c];
    System.out.println("Enter matrix:");
    for(i = 0; i < r; i++)
    {
        for(j = 0; j < c; j++)
            {
            array[i][j] = s.nextInt();
            System.out.print(" ");
            }
    }
    System.out.println("Entered Matrix is ");
    for(i = 0; i < r; i++)
        {
            for(j = 0; j < c; j++)
            {
            System.out.print(array[i][j]+" ");
            }
            System.out.println(" ");
        }
    System.out.println("The above matrix after Transpose is ");
    for(i = 0; i < c; i++)
        {
            for(j = 0; j < r; j++)
            {
                System.out.print(array[j][i]+" ");
            }
            System.out.println(" ");
        }
    }
}
```



VowCons.java

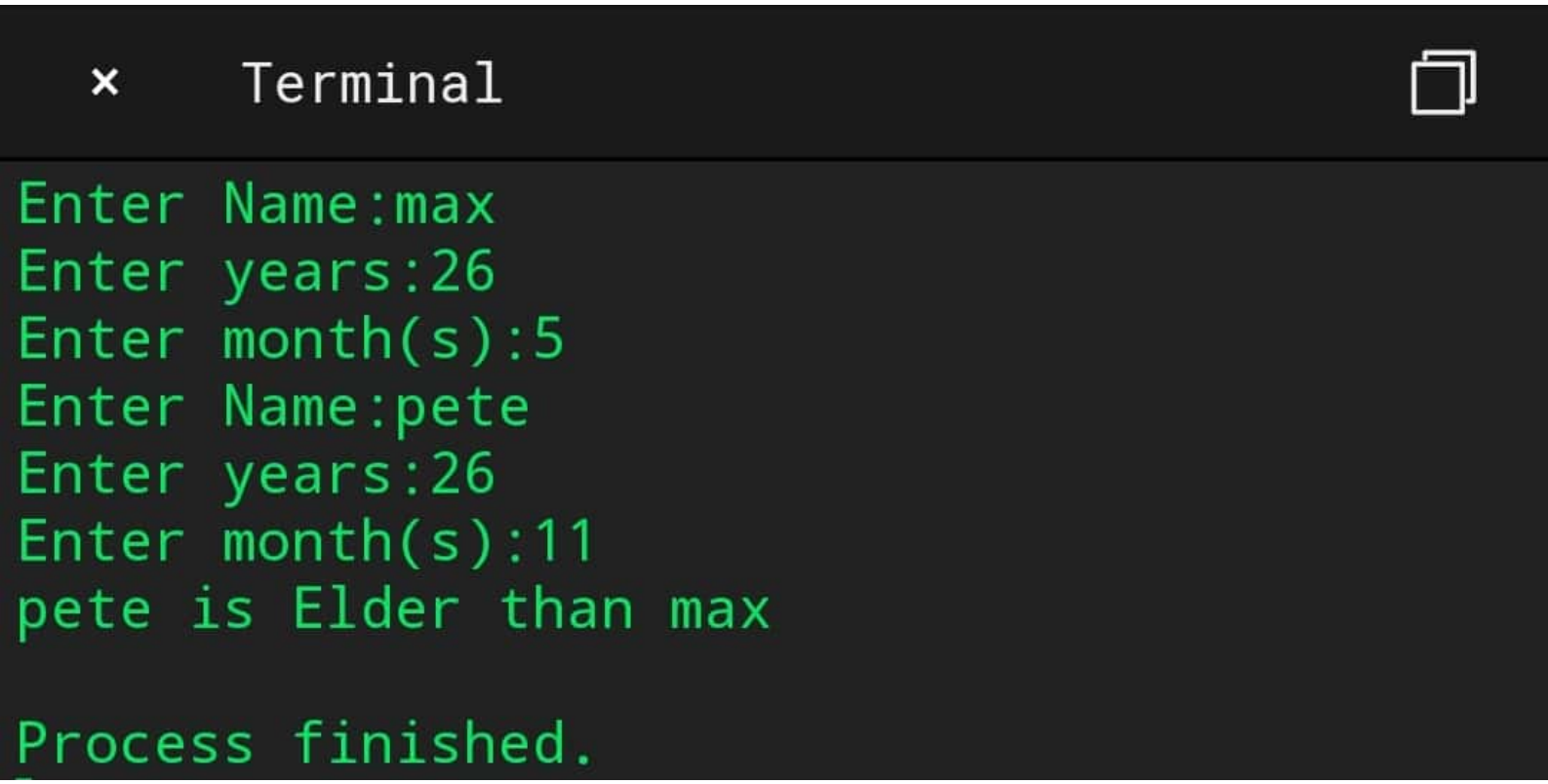
Saved

```java
import java.util.Scanner;
public class Count
{
   public static void main(String[] args)
   {
        Scanner s=new Scanner(System.in);
        System.out.println("Enter String:");
        String str;
        str=s.next();
        int vcount = 0,ccount = 0;
        str = str.toLowerCase();
        for(int i = 0; i < str.length(); i++)
        {
          char ch = str.charAt(i);
          if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
            vcount++;
          else if((ch >= 'a'&& ch <= 'z'))
            ccount++;
        }
        System.out.println("Number of Vowels: " + vcount);
        System.out.println("Number of Consonants: " + ccount);
    }
}
```

AgeElder.java

Saved

```java
import java.util.Scanner;
class Age
{
  private
  String n;
  int yr,m;
  public
  Scanner s=new Scanner(System.in);
  void get()
  {
    System.out.print("Enter Name:");
    n=s.next();
    System.out.print("Enter years:");
    yr=s.nextInt();
    System.out.print("Enter month(s):");
    m=s.nextInt();
  }
  void compare(Age x)
  {
    if(yr<x.yr)
    System.out.println(x.n+" is Elder than "+n);
    else if(yr==x.yr && m<x.m)
    System.out.println(x.n+" is Elder than "+n);
    else
    System.out.println(n+" is Elder than "+x.n);
  }
}
class AgeMain
{
  public static void main(String args[])
  {
    Scanner s=new Scanner(System.in);
    Age a=new Age();
    Age b=new Age();
    a.get();
    b.get();
    a.compare(b);
  }
}
```



PlayerAvg.java

Saved

```java
import java.util.Scanner;
class Player
{
  int id, no_matches_played;
  int[] scores;
  String name;
  Player(String na, int i, int n, int[] s)
  {
    name = na;
    id = i;
    no_matches_played = n;
    scores = s;
  }
  Player()
  {
    name=null;
    id=0;
    no_matches_played = 0;
  }
  double avg()
  {
    int score=0;
    for(int i=0;i<no_matches_played; i++)
    score += scores[i];
    double avg_score = (score*1.0)/no_matches_played;
    return avg_score;
  }
  void display()
  {
    System.out.println("Name:  "+name);
    System.out.println("I.D. :  "+id);
    System.out.println("No. of Matches played:  "+no_matches_played);
    System.out.print("Scores:  ");
    for(int i=0;i<no_matches_played;i++)
    System.out.print(scores[i]+" ");
  }
}
class player
{
  public static void main(String[] args)
  {
    Scanner sn = new Scanner(System.in);
    System.out.println("Enter the name of player");
    String na = sn.nextLine();
    System.out.println("Enter the ID");
    int id = sn.nextInt();
    System.out.println("Enter the Number of matches played");
    int n = sn.nextInt();
    System.out.println("Enter the scores");
    int[] s = new int[n];
    for(int i =0;i<n;i++)
      s[i] = sn.nextInt();
    Player p1 = new Player(na, id, n, s);
    double a1 = p1.avg();
    na = sn.nextLine();
    System.out.println("Enter the name of player");
    na = sn.nextLine();
    System.out.println("Enter the ID");
    id = sn.nextInt();
    System.out.println("Enter the Number of matches played");
    n = sn.nextInt();
    int[] si = new int[n];
    System.out.println("Enter the scores");
    for(int i =0;i<n;i++)
      si[i] = sn.nextInt();
    Player p2 = new Player(na, id, n, si);
    double a2 = p2.avg();
    if(a1>a2)
      p1.display();
    else
      p2.display();
   }
}
```

```
Terminal
Enter No. of Books:
2
Book No-1
Enter Book Name:Famous
Enter Author Name:Gyllenhaal
Enter Price:699
Enter No. of pages:436
Book No-2
Enter Book Name:North
Enter Author Name:Trippier
Enter Price:899
Enter No. of pages:1232

Details of Book 1,
Book Name=Famous
Author Name=Gyllenhaal
price=699.0
No. of Pages=436.0

Details of Book 2,
Book Name=North
Author Name=Trippier
price=899.0
No. of Pages=1232.0

Process finished.
```