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Day 7 ClassWork

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1.
import java.util.*;
public class Main
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               player p = new player();
               String name, country, skill;
               p.name = sc.next();
               p.country =sc.next();
               p.skill=sc.next();
               p.display();
       }
class player{
  String name, country, skill;
  void display(){
     System.out.println("Player name: "+name+"\n"+"country: "+country+"\n"+"Skill: " +skill);
 }
}
2.
import java.util.*;
public class Main
{
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               Main p = new Main();
               char c = sc.next().charAt(0);
               p.isVow(c);
       void isVow(char c){
          if(c=='a'||c=='e'||c=='i'||c=='o'||c=='u'){
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System.out.println(c+" is vowel");
          }
          else{
             System.out.println(c+" is consonant");
          }
       }
}
3.
import java.util.*;
public class Main
{
        public static void main(String[] args) {
               SumClass obj = new SumClass();
               Scanner scan = new Scanner(System.in);
               int n = scan.nextInt();
     int a[] = obj.getData(n);
     int target=scan.nextInt();
          obj.find(a,n,target);
       }
}
class SumClass{
   int[] getData(int n){
      Scanner scan = new Scanner(System.in);
     int a[] = new int[n];
     for(int i=0;i< n;i++){
        a[i]=scan.nextInt();
     }
     return a;
   }
   void find(int a[],int n,int target){
     for(int i=0;i< n;i++){
        for(int j=0;j<n;j++){
           if((a[i]+a[j])==target){}
             System.out.println(a[i]+" "+ a[j]);
           }
        }
```

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}
   }
}
4.
import java.util.*;
public class Main
       public static void main(String[] args) {
               SumClass obj = new SumClass();
               Scanner scan = new Scanner(System.in);
               int n = scan.nextInt();
     obj.digitCount(n);
       }
}
class SumClass{
  int n;
  void digitCount(int n){
     int count=0;
     while(n>0){
       int t=n%10;
       n=n/10;
       count++;
     System.out.println(count);
  }
}
5.
import java.util.*;
public class Main
{
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
```

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TelephoneIndex[] t = new TelephoneIndex[n];
          for(int i=0;i<n;i++){
             String name = sc.next();
             String number = sc.next();
            t[i]=new TelephoneIndex(name,number);
          }
          String search = sc.next();
          for(int i=0;i< n;i++){
            if(t[i].name.contains(search)) {
              System.out.println(t[i].name+" "+t[i].number);
            }
         }
       }
}
class TelephoneIndex{
  String name;
  String number;
  TelephoneIndex(String name, String number){
     this.name=name;
     this.number=number;
  }
}
6.
import java.util.*;
class EmailValidation {
  private String email;
  public EmailValidation(String email) {
     this.email = email;
  }
  public boolean checkEmail() {
     if (!email.contains("@") && !email.contains(".")) {
       return false;
     String[] parts = email.split("@");
     if (parts.length != 2) {
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return false;
     }
     String local = parts[0];
     String domain = parts[1];
     if (local.isEmpty() || domain.isEmpty()) {
        return false;
     }
     String[] validDomains = {"in", "com", "net", "biz"};
     for (String valid : validDomains) {
       if (domain.equals(valid)) {
          return true;
       }
     return true;
  }
  private boolean isValidDomain(String domain, String[] validDomains) {
     for (String validDomain : validDomains) {
       if (domain.equals(validDomain)) {
          return true;
       }
     return false;
  }
}
public class Main{
  public static void main(String[] args) {
     Scanner sc = new Scanner(System.in);
     String email = sc.nextLine();
     EmailValidation em = new EmailValidation(email);
     if (em.checkEmail()) {
        System.out.println("Valid email address: " + email);
        System.out.println("Invalid email address: " + email);
}
```

```
7.
import java.util.*;
public class Main
{
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
               Employee[] t = new Employee[n];
          for(int i=0;i< n;i++){
             int id= sc.nextInt();
             String Name=sc.next();
             double Salary=sc.nextDouble();
            t[i] = new Employee(id,Name,Salary);
         int min=sc.nextInt();
         int f=0;
         for(int i=0;i< n;i++){
            if(t[i].Salary<min){</pre>
              System.out.println(t[i].id+""+t[i].Name+""+t[i].Salary);f=1;\\
            }
         }
         if(f==0){
            System.out.println("No Employee below minimimum Salary");
         }
       }
}
class Employee{
  int id;String Name;double Salary;
  Employee(int id, String Name, double Salary){
    this.id = id;
    this.Name=Name;
    this.Salary=Salary;
 }
```

```
}
8.
import java.util.*;
class Main
{
       public static void main(String[] args) {
              Scanner sc = new Scanner(System.in);
              int n = sc.nextInt();
              User[] t = new User[n];
         for(int i=0;i< n;i++){
            String name = sc.next();
            String mobileNumber = sc.next();
            String Username = sc.next();
            String password = sc.next();
            t[i]=new User(name,mobileNumber,Username,password);
         }
          if(t[0].getmobileNumber().equals(t[1].getmobileNumber())){
            System.out.println("User1 and User2 are equal");
         }
         else{
            System.out.println("User1 and User2 are not equal");
         }
       }
}
class User{
  private String name;
 private String mobileNumber;
  private String Username;
  private String password;
 User(String name, String mobileNumber, String Username, String password){
    this.name=name;
    this.mobileNumber=mobileNumber;
    this.Username=Username;
    this.password=password;
```

```
}
 public String getName(){
   return name;
 public String getmobileNumber(){
   return mobileNumber;
 public String getUsername(){
   return Username;
 public String getpassword(){
   return password;
 }
 }
9.
import java.util.*;
public class Main
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
               Student[] t = new Student[n];
          for(int i=0;i< n;i++){
            int rollno =sc.nextInt();
            int m1=sc.nextInt();
            int m2=sc.nextInt();
            int m3=sc.nextInt();
             t[i] = new Student(rollno,m1,m2,m3);
         int max1=0,max2=0,max3=0,maxtot=0,i1=0,i2=0,i3=0,ti=0;
         for(int i=0;i< n;i++){
            int tot=t[i].m1+t[i].m2+t[i].m3;
            if(tot>maxtot){
              maxtot=tot;
              ti=i;
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```
System.out.println(tot);
            if(t[i].m1>max1){
               max1=t[i].m1;
               i1=i;
            if(t[i].m2>max2){
               max2=t[i].m2;
               i2=i;
            if(t[i].m3>max3){
               max1=t[i].m3;
               i3=i;
            }
         System.out.println(t[i1].rollno+" "+t[i1].m1);
               System.out.println(t[i2].rollno+" "+t[i2].m2);
               System.out.println(t[i3].rollno+" "+t[i3].m3);
               System.out.println(t[ti].rollno+" "+maxtot);
       }
class Student{
  int rollno,m1,m2,m3;
  Student(int rollno, int m1, int m2, int m3){
    this.rollno=rollno;
    this.m1=m1;
    this.m2=m2;
    this.m3=m3;
 }
}
10.
import java.util.*;
class Main
{
       public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
               User[] t = new User[n];
          for(int i=0;i< n;i++){
            String name = sc.next();
            String mobileNumber = sc.next();
            String Username = sc.next();
            String password = sc.next();
            t[i]=new User(name,mobileNumber,Username,password);
         }
          String dlt = sc.next();
          int f=0;
          for(int i=0;i< n;i++){
            if(t[i].getName().equals(dlt)){
              if(i==n-1)
                 t[i] = null;f=1;
              }
              else{
                 t[i]=t[n-1];
             f=1;
              }
           }
          if(f==0)
            System.out.println("User not found");
          }
          else{
            System.out.println("User deleted successfully");
          }
       }
}
class User{
  private String name;
  private String mobileNumber;
  private String Username;
  private String password;
  User(String name, String mobileNumber, String Username, String password){
    this.name=name;
```

```
this.mobileNumber=mobileNumber;
    this.Username=Username;
    this.password=password;
 }
 public String getName(){
   return name;
 }
 public String getmobileNumber(){
   return mobileNumber;
 public String getUsername(){
   return Username;
 public String getpassword(){
   return password;
 }
}
11.
import java.util.*;
public class Main
       public static void main(String[] args) {
       DateTime dt = new DateTime();
       dt.init();dt.display();
       }
}
class DateTime{
  int hours, minutes, date, month, year;
  void init(){
     Scanner sc = new Scanner(System.in);
     hours=sc.nextInt();
     minutes=sc.nextInt();
     date=sc.nextInt();
     month=sc.nextInt();
     year=sc.nextInt();
  void display(){
     if(hours>24|| minutes>60||date>31||month>12|| (year <0 && year > 9999)){
       System.out.println("Invalid");
```

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}
     else{
        System.out.println(date+"-"+month+"-"+year);
        System.out.println(hours+" hrs "+minutes+" mins ");
        System.out.println("Total mins:"+(hours*60 + minutes));
     }
  }
}
12.
import java.util.*;
public class Main
       public static void main(String[] args) {
               Scanner sc = new Scanner(System.in);
               int n = sc.nextInt();
               BusBooking[] obj = new BusBooking[n];
               for(int i=0;i< n;i++){
                  String name = sc.next();
                  String age = sc.next();
                  String gender = sc.next();
                  obj[i] = new BusBooking(name, age, gender);
               String s = sc.next();
               int f = 0;
               for(int i=0;i< n;i++){
                  if(obj[i].name.equals(s)){
                    f=1:
                    if(i==n-1){
                       obj[i]=null;
                    }
                    else{
                       obj[i]=obj[n-1];
                    System.out.println("User details deleted");
                    break;
                  }
               }
               if(f==0){
                  System.out.println("No user matched");
               }else{
                  for(int i=0;i< n-1;i++){
```

```
System.out.println(obj[i].name+" "+obj[i].age+" "+obj[i].gender);
}

}

class BusBooking{
String name, age, gender;
BusBooking(String name, String age, String gender){
    this.name=name;
    this.age=age;
    this.gender=gender;
}
```