



# MARMARA UNIVERSITY FACULTY OF ENGINEERING

CSE2062

Object Oriented Programming

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# HOSPITAL ABOVE:

## *Hospital Appointment System*

This project's aim in general is allowing patients to take appointments in an easy manner. While doing that helps patients to learn about the doctors in the hospital and give them an opportunity to see their own BMI and minimal calorie requirement. As an assignment we had to take atleast 5 different type of inputs and give atleast different type of 3 outputs and use necessary concepts such as polymorphism, overload etc. . To achive this we implemented 9 different classes with each has its own purpose. These classes are:

### *Doctor Class*

In this class we take care of the doctor's available days and other attributes such as experiences and departments. If a user of our system would like to see the doctor's informations this class allows us to proccess the info's about our doctors and shows them to the user as an output.

```
public class Doctor {
    protected String depart;
    protected int [] availableDay= new int [5];
    protected int exp;
    protected String nameSurname;

    public Doctor(String depart, String nameSurname,int[] availableDay,int exp) {
        super();
        this.depart = depart;
        this.availableDay = availableDay;
        this.nameSurname = nameSurname;
        this.exp=exp;
    }

    public void docSchedule() {
        System.out.println("Doctor "+nameSurname+" is available at : ");
        for(int i=0;i<5;i++) {
            if(availableDay[i]==1) {
                if(i==0) {
                    System.out.println("Monday");
                }
                else if(i==1) {
                    System.out.println("Tuesday");
                }
                else if(i==2) {
                    System.out.println("Wednesday");
                }
                else if(i==3) {
                    System.out.println("Thursday");
                }
                else if(i==4) {
                    System.out.println("Friday");
                }
            }
        }
    }

    public void showInfo() {
        System.out.println("\n"+nameSurname+" || Department: "+ depart+" || Experience in this sector: "+exp+" years.");
    }
}
```

---

### *Department Classes(Neurology,Cardiology,Dermatology,Plastic)*

These classes are subclasses of the class “Doctor”. In these classes we separate the doctors from each other as giving each of them a department. These classes simply gives the doctors their final identity.

```
public class Neurology extends Doctor {
    public Neurology( String nameSurname, int[] availableDay,int exp) {
        super(nameSurname, nameSurname, availableDay, exp);
        // TODO Auto-generated constructor stub
        depart="Neurology";
        this.nameSurname=nameSurname;
        this.availableDay=availableDay;
        this.exp=exp;
    }
}

public class Cardiology extends Doctor {

    public Cardiology( String nameSurname, int[] availableDay,int exp) {
        super(nameSurname, nameSurname, availableDay, exp);
        // TODO Auto-generated constructor stub
        depart="Cardiology";
        this.nameSurname=nameSurname;
        this.availableDay=availableDay;
        this.exp=exp;
    }

}

public class Dermatology extends Doctor{

    public Dermatology( String nameSurname, int[] availableDay,int exp) {
        super(nameSurname, nameSurname, availableDay, exp);
        // TODO Auto-generated constructor stub
        depart="Dermatology";
        this.nameSurname=nameSurname;
        this.availableDay=availableDay;
        this.exp=exp;
    }

}

public class Plastic extends Doctor {
    public Plastic( String nameSurname, int[] availableDay,int exp) {
        super(nameSurname, nameSurname, availableDay, exp);
        // TODO Auto-generated constructor stub
        depart="Plastic Surgery";
        this.nameSurname=nameSurname;
        this.availableDay=availableDay;
        this.exp=exp;
    }
}
```

## *Interface BMI*

In our Interface we introduced a bodyless method “bmiCalculate”. We are going to use this method to calculate the Body Mass Index of the user.

```
public interface BMI {  
    public abstract double bmiCalculate();  
}
```

## *Abstract Class MinimumCal*

In the abstract class of our project we introduce 2 methods to take height and weight of the user as inputs. These methods called as “enterHeight” and “enterWeight”. After that we introduce the bodyless method “MinCal”. We are going to use this method to calculate the minimal requirement of calories for the user.

```
import java.util.*;  
  
public abstract class MinimumCal {  
    public static Scanner scan=new Scanner(System.in);  
    public int weight;  
    public int height;  
  
    public int enterHeight() {  
        System.out.println("Please enter your height(in cantimeters): ");  
        height=scan.nextInt();  
        return height;  
    }  
    public int enterWeight() {  
        System.out.println("Please enter your weight(in kilograms): ");  
        weight=scan.nextInt();  
        return weight;  
    }  
    public abstract double MinCal();  
}
```

*We are going to use these two methods if user wants to see these information about themselves.*

## *Patient Class*

In this class we process the taken inputs from user about themselves. In the upcoming main class we are going to take the patients name, mail adress, telephone number, age and if they so chose we take their height and weight with the help of our abstract class and interface class. The "Patient" Class is a subclass extends to our abstract class and implements to our interface. And in final we calculate the cost of the appointment.

```
import java.util.*;

public class Patient extends MinimumCal implements BMI {
    public static Scanner scan=new Scanner(System.in);
    private String name;
    private String mail;
    private long tel;
    public int age;
    private int heightfil;
    private int weightfil;
    private double a;
    private double b;
    private double c;

    @Override
    public double MinCal() {
        // TODO Auto-generated method stub
        int a=age;
        int b=enterHeight();
        int c=enterWeight();
        heightfil=b;
        weightfil=c;
        return (b*6.25)+(c*9.99)-(a*4.92)-161;
    }

    @Override
    public double bmiCalculate() {
        b=heightfil*heightfil;
        c=b/10000;
        a=weightfil/c;
        return a;
    }

    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}
```

```

public String getMail() {
    return mail;
}
public void setMail(String mail) {
    this.mail = mail;
}
public long getTelNum() {
    return tel;
}
public void setTelNum(long tel) {
    this.tel = tel;
}

public Patient(String name, int age, String mail, long tel) {
    super();
    this.name = name;
    if(age>0) {
        this.age = age;
    }
    else {
        System.out.println("Your age cannot be smaller than 0. Your age will be counted as 0.");
        this.age=0;
    }
    this.mail = mail;
    this.tel = tel;
}

//overload concept
public void calculateCost() {
    System.out.println("Cost is 80$.");
}

public void calculateCost(char a) {
    System.out.println("Cost is 40$.");
}

}

```

## *Our Main Class HospitalAbove*

In the main class we have two methods which are “appointment” and “main”. In the “appointment” method we are going to use the entered department and appointment day to create the appointment. In the “main” method we create our doctors than start our process of taking appointment. First we introduce our hospital and ask the user if they want to see about our doctors and their availability. If they say yes we display the doctors informations. If they say no we go to the next step right away. After that we ask the user about the department and the day they would like to take an appointment. With these steps done we create the appointments first step and start to ask about the patients informations like their name age etc. . After their necessary informations we ask the patient if they would like to know their minimal requirement of calories a day and their BMI. If they say yes we ask the patient their height and weight. If they say no we go to the next step right away. After all these we display the patients informations and appointment informations and ask the user if they have a health insurance. If they say yes we give a discount and print the discounted cost and if they say no we display the raw cost. With all these done patient got their appointment and get the informations about whatever they might want to know.

```
import java.util.*;
public class HospitalAbove {
    public static boolean appointment(String appDay,String dep,Doctor a,Doctor b,Doctor c,Doctor d,Neurology e,Neurology f,Dermatology g,Dermatology h) {
        String temp=appDay;
        appDay=appDay.toLowerCase();
        dep=dep.toLowerCase();
        int day=-1;
        switch (appDay) {
            case "monday":
                day=0;
                break;
            case "tuesday":
                day=1;
                break;
            case "wednesday":
                day=2;
                break;
            case "thursday":
                day=3;
                break;
            case "friday":
                day=4;
                break;
        }
        int cnt=0;
```

```

        if(day<0) {
            System.out.println("Not a valid entry or day. Please try again.");
            return true;
        }
        if(a.depart.equalsIgnoreCase(dep)&&a.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+a.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(b.depart.equalsIgnoreCase(dep)&&b.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+b.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(c.depart.equalsIgnoreCase(dep)&&c.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+c.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(d.depart.equalsIgnoreCase(dep)&&d.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+d.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(e.depart.equalsIgnoreCase(dep)&&e.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+e.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(f.depart.equalsIgnoreCase(dep)&&f.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+f.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(g.depart.equalsIgnoreCase(dep)&&g.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+g.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(h.depart.equalsIgnoreCase(dep)&&h.availableDay[day]==1) {
            System.out.println("\nAppointment is done.\nYour doctor is "+h.nameSurname+"\nYour appointment day is "+temp.toLowerCase()+".");
            cnt++;
        }
        if(cnt==0) {
            System.out.println("Not a valid entry. Please try again.");
            return true;
        }
        else return false;
    }
}

public static Scanner scan=new Scanner (System.in);
public static void main(String[] args) {

    int [] days1= {1,0,1,0,1};
    int [] days2= {0,1,0,1,0};
    int [] days3= {1,1,0,1,0};
    int [] days4= {0,0,1,0,1};
    int [] days5= {1,1,1,0,0};
    int [] days6= {0,0,0,1,1};
    int [] days7= {1,0,1,1,0};
    int [] days8= {0,1,0,0,1};

    // polymorphism concept
    Doctor int1=new Cardiology("Mehmet Temmuz Boyraz",days1,10);
    Doctor int2=new Cardiology("Şerife Küçükköşker",days2,8);
    Doctor pla1=new Plastic("Mehmet Karaca",days3,21);
    Doctor pla2=new Plastic("Uygar Gündüz",days4,17);
    Neurology sur1=new Neurology("Talha Yavçın",days5,8);
    Neurology sur2=new Neurology("Tahir Temizkan",days6,45);
    Dermatology der1=new Dermatology("Selahattin Ege Karagözlü",days7,31);
    Dermatology der2=new Dermatology("Büşra Uzunkürek",days8,15);

    boolean control = true;
    System.out.println("Welcome to Hospital Above.");
    while(control) {
        System.out.println("To get to know our beloved doctors and see their availability throughout the week please enter the word \"yes or no\".");
        String dec;
        dec=scan.nextLine();
        dec=dec.toLowerCase();
        if(dec.equals("yes")) {
            int1.showInfo();
            int1.docSchedule();
            int2.showInfo();
            int2.docSchedule();
            pla1.showInfo();
            pla1.docSchedule();
            pla2.showInfo();
            pla2.docSchedule();
            sur1.showInfo();
            sur1.docSchedule();
            sur2.showInfo();
            sur2.docSchedule();
            der1.showInfo();
            der1.docSchedule();
            der2.showInfo();
            der2.docSchedule();
            control = false;
        }
    }
}

```



```

else if(dec.equals("no")) {
    control = false;
}
else System.out.println("Not a valid entry. Please try again.");
}
boolean control1 = true;

String patappday="";
String patdepart = "";
while (control1) {
    System.out.println("Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)");
    patdepart=scan.nextLine();
    patdepart = patdepart.toLowerCase();
    if(!(patdepart.equals("neurology") || patdepart.equals("cardiology") || patdepart.equals("plastic surgery") || patdepart.equals("dermatology"))) {
        System.out.println("Not a valid entry or department. Please try again.");
    }
    else control1=false;
}
boolean control2 = true;
while(control2) {
    System.out.println("Please enter the day that you would like to take an appointment.(Only week days)");
    patappday=scan.nextLine();
    control2=appointment(patappday,patdepart,int1,int2,pla1,pla2,sur1,sur2,der1,der2);
}
int patientAge;
String patientMail;
long patientTel;
String patientName;

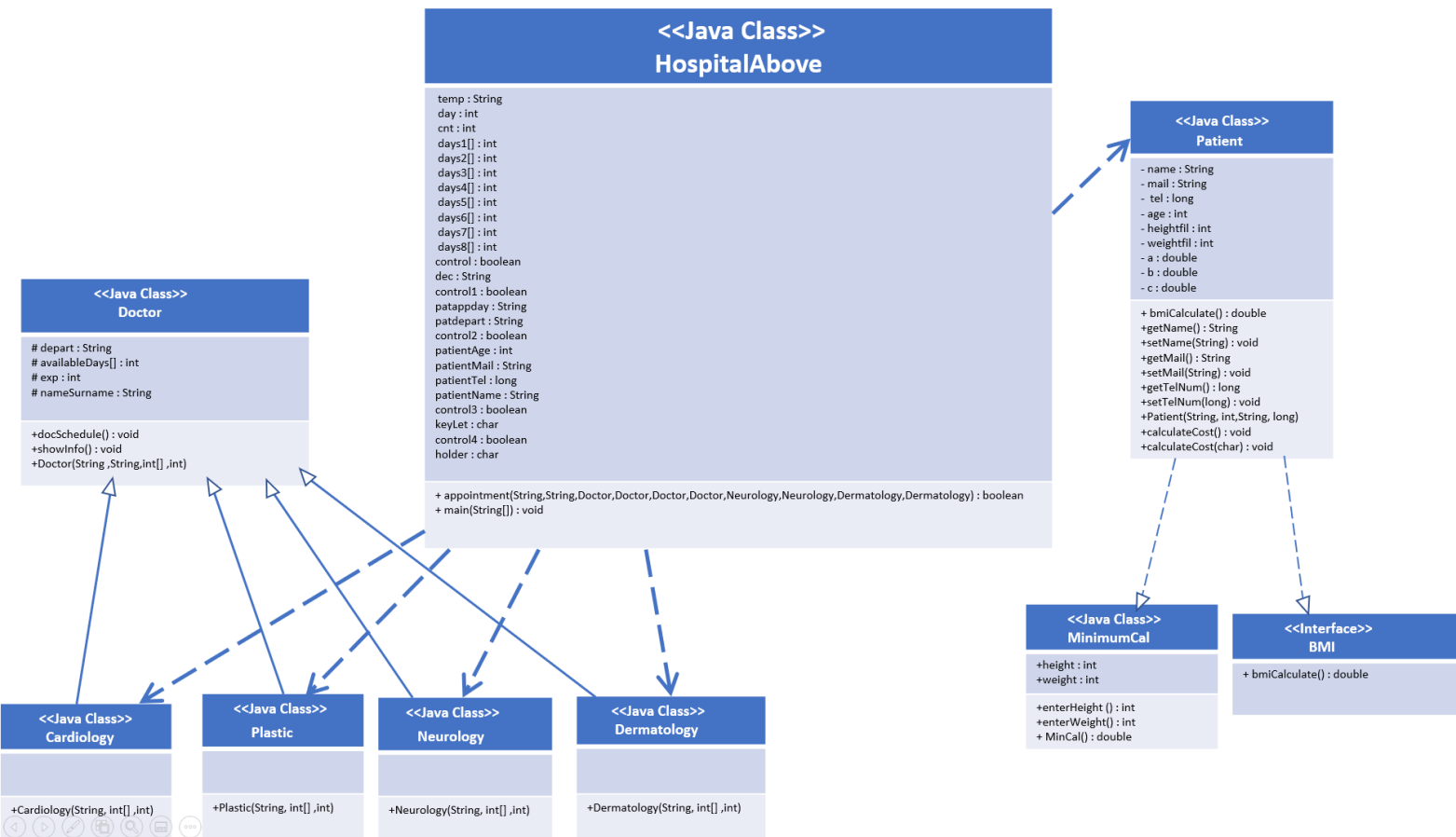
System.out.println("Please enter your name : ");
patientName=scan.nextLine();
System.out.println("Please enter your mail address : ");
patientMail=scan.nextLine();
System.out.println("Please enter your age : ");
patientAge=scan.nextInt();
System.out.println("Please enter your telephone number : ");
patientTel=scan.nextLong();

Patient patient1=new Patient(patientName,patientAge,patientMail,patientTel);

boolean control3=true;
while(control3) {
    System.out.println("Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter \"y or n\")");
    char keyLet=scan.next().toLowerCase().charAt(0);
    if(keyLet=='y') {
        System.out.println("\nMinimum Calorie Amount: "+patient1.MinCal());
        System.out.println("BMI: "+patient1.bmiCalculate());
        control3=false;
    }
    else if(keyLet=='n') {
        control3=false;
    }
    else control3=true;
}
System.out.println("\n          Patient Infos");
System.out.println("*****");
System.out.println("Patient Name: "+patient1.getName());
System.out.println("Patient Mail Address: "+patient1.getMail());
System.out.println("Patient Age: "+patient1.age);
System.out.println("Patient Telephone Number: "+patient1.getTelNum());
System.out.println("\n          Appointment Infos");
System.out.println("*****");
System.out.println("Selected Department: "+patdepart);
System.out.println("Selected Day of appointment: "+patappday.toLowerCase());
boolean control4=true;
while(control4) {
    System.out.println("Do you have a health insurance?(type \"y or n\" if you have one)");
    char holder=scan.next().toLowerCase().charAt(0);
    if(holder=='y'){
        patient1.calculateCost(holder);
        control4=false;
    }
    else if(holder=='n') {
        patient1.calculateCost();
        control4=false;
    }
    else control4=true;
}
}
}
}

```

## UML Diagram of Our Project



We draw our UML Diagram ourselves because we wanted to learn about UML Diagrams better.

## Outputs of Our Project

### Output 1:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
yes

Mehmet Temmuz Boyraz || Department: Cardiology || Experience in this sector: 10 years.
Doctor Mehmet Temmuz Boyraz is available at :
Monday
Wednesday
Friday

Şerife Küçükköşker || Department: Cardiology || Experience in this sector: 8 years.
Doctor Şerife Küçükköşker is available at :
Tuesday
Thursday

Mehmet Karaca || Department: Plastic Surgery || Experience in this sector: 21 years.
Doctor Mehmet Karaca is available at :
Monday
Tuesday
Thursday

Uygar Gündüz || Department: Plastic Surgery || Experience in this sector: 17 years.
Doctor Uygar Gündüz is available at :
Wednesday
Friday

Talha Yavçın || Department: Neurology || Experience in this sector: 8 years.
Doctor Talha Yavçın is available at :
Monday
Tuesday
Wednesday

Tahir Temizkan || Department: Neurology || Experience in this sector: 45 years.
Doctor Tahir Temizkan is available at :
Thursday
Friday

Selahattin Ege Karagözlü || Department: Dermatology || Experience in this sector: 31 years.
Doctor Selahattin Ege Karagözlü is available at :
Monday
Wednesday
Thursday

Büşra Uzunkürek || Department: Dermatology || Experience in this sector: 15 years.
Doctor Büşra Uzunkürek is available at :
Tuesday
Friday

Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
cardiology
Please enter the day that you would like to take an appointment.(Only week days)
monday

Appointment is done.
Your doctor is Mehmet Temmuz Boyraz.
Your appointment day is monday.
Please enter your name :
tahir
Please enter your mail adress :
tahir@gmail.com
Please enter your age :
22
Please enter your telephone number :
5071231234
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
y
Please enter your height(in centimeters):
182
Please enter your weight(in kilograms):
73

Minimum Calorie Amount: 1597.53
BMI: 22.03840115928028

Patient Infos
*****
Patient Name: tahir
Patient Mail Adress: tahir@gmail.com
Patient Age: 22
Patient Telephone Number: 5071231234

Appointment Infos
*****
Selected Department: cardiology
Selected Day of appointment: monday
Do you have a health insurance?(type "y or n" if you have one)
y
Cost is 40$.
```

## Output 2:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
yes

Mehmet Temmuz Boyraz || Department: Cardiology || Experience in this sector: 10 years.
Doctor Mehmet Temmuz Boyraz is available at :
Monday
Wednesday
Friday

Serife Küçükköşker || Department: Cardiology || Experience in this sector: 8 years.
Doctor Serife Küçükköşker is available at :
Tuesday
Thursday

Mehmet Karaca || Department: Plastic Surgery || Experience in this sector: 21 years.
Doctor Mehmet Karaca is available at :
Monday
Tuesday
Thursday

Uygar Gündüz || Department: Plastic Surgery || Experience in this sector: 17 years.
Doctor Uygar Gündüz is available at :
Wednesday
Friday

Talha Yavçın || Department: Neurology || Experience in this sector: 8 years.
Doctor Talha Yavçın is available at :
Monday
Tuesday
Wednesday

Tahir Temizkan || Department: Neurology || Experience in this sector: 45 years.
Doctor Tahir Temizkan is available at :
Thursday
Friday

Selahattin Ege Karagözlü || Department: Dermatology || Experience in this sector: 31 years.
Doctor Selahattin Ege Karagözlü is available at :
Monday
Wednesday
Thursday

Büşra Uzunkürek || Department: Dermatology || Experience in this sector: 15 years.
Doctor Büşra Uzunkürek is available at :
Tuesday
Friday
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
cardiology
Please enter the day that you would like to take an appointment.(Only week days)
tuesday

Appointment is done.
Your doctor is Serife Küçükköşker.
Your appointment day is tuesday.
Please enter your name :
feyza
Please enter your mail adress :
feyza@hotmail.com
Please enter your age :
21
Please enter your telephone number :
5069879876
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
yes
Please enter your height(in centimeters):
167
Please enter your weight(in kilograms):
54

Minimum Calorie Amount: 1318.89
BMI: 19.362472659471475

      Patient Infos
*****
Patient Name: feyza
Patient Mail Adress: feyza@hotmail.com
Patient Age: 21
Patient Telephone Number: 5069879876

      Appointment Infos
*****
Selected Department: cardiology
Selected Day of appointment: tuesday
Do you have a health insurance?(type "y or n" if you have one)
n
Cost is 80$.
```

### Output 3:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
yes

Mehmet Temmuz Boyraz || Department: Cardiology || Experience in this sector: 10 years.
Doctor Mehmet Temmuz Boyraz is available at :
Monday
Wednesday
Friday

Şerife Küçükköşker || Department: Cardiology || Experience in this sector: 8 years.
Doctor Şerife Küçükköşker is available at :
Tuesday
Thursday

Mehmet Karaca || Department: Plastic Surgery || Experience in this sector: 21 years.
Doctor Mehmet Karaca is available at :
Monday
Tuesday
Thursday

Uygar Gündüz || Department: Plastic Surgery || Experience in this sector: 17 years.
Doctor Uygar Gündüz is available at :
Wednesday
Friday

Talha Yavçın || Department: Neurology || Experience in this sector: 8 years.
Doctor Talha Yavçın is available at :
Monday
Tuesday
Wednesday

Tahir Temizkan || Department: Neurology || Experience in this sector: 45 years.
Doctor Tahir Temizkan is available at :
Thursday
Friday

Selahattin Ege Karagözlü || Department: Dermatology || Experience in this sector: 31 years.
Doctor Selahattin Ege Karagözlü is available at :
Monday
Wednesday
Thursday

Büşra Uzunkürek || Department: Dermatology || Experience in this sector: 15 years.
Doctor Büşra Uzunkürek is available at :
Tuesday
Friday
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
plastic surgery
Please enter the day that you would like to take an appointment.(Only week days)
wednesday

Appointment is done.
Your doctor is Uygar Gündüz.
Your appointment day is wednesday.
Please enter your name :
sevil
Please enter your mail adress :
sevil@gmail.com
Please enter your age :
23
Please enter your telephone number :
5325675656
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
no

Patient Infos
*****
Patient Name: sevil
Patient Mail Adress: sevil@gmail.com
Patient Age: 23
Patient Telephone Number: 5325675656

Appointment Infos
*****
Selected Department: plastic surgery
Selected Day of appointment: wednesday
Do you have a health insurance?(type "y or n" if you have one)
yes
Cost is 40$.
```

## Output 4:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
yes

Mehmet Temmuz Boyraz || Department: Cardiology || Experience in this sector: 10 years.
Doctor Mehmet Temmuz Boyraz is available at :
Monday
Wednesday
Friday

Serife Küçükköşker || Department: Cardiology || Experience in this sector: 8 years.
Doctor Serife Küçükköşker is available at :
Tuesday
Thursday

Mehmet Karaca || Department: Plastic Surgery || Experience in this sector: 21 years.
Doctor Mehmet Karaca is available at :
Monday
Tuesday
Thursday

Uygur Gündüz || Department: Plastic Surgery || Experience in this sector: 17 years.
Doctor Uygur Gündüz is available at :
Wednesday
Friday

Talha Yavçın || Department: Neurology || Experience in this sector: 8 years.
Doctor Talha Yavçın is available at :
Monday
Tuesday
Wednesday

Tahir Temizkan || Department: Neurology || Experience in this sector: 45 years.
Doctor Tahir Temizkan is available at :
Thursday
Friday

Selahattin Ege Karagözlü || Department: Dermatology || Experience in this sector: 31 years.
Doctor Selahattin Ege Karagözlü is available at :
Monday
Wednesday
Thursday

Büşra Uzunkürek || Department: Dermatology || Experience in this sector: 15 years.
Doctor Büşra Uzunkürek is available at :
Tuesday
Friday
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
plastic surgery
Please enter the day that you would like to take an appointment.(Only week days)
thursday

Appointment is done.
Your doctor is :Mehmet Karaca.
Your appointment day is thursday.
Please enter your name :
fatih
Please enter your mail adress :
fatih@yahoo.com
Please enter your age :
24
Please enter your telephone number :
5051112233
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
no

Patient Infos
*****
Patient Name: fatih
Patient Mail Adress: fatih@yahoo.com
Patient Age: 24
Patient Telephone Number: 5051112233

Appointment Infos
*****
Selected Department: plastic surgery
Selected Day of appointment: thursday
Do you have a health insurance?(type "y or n" if you have one)
no
Cost is 80$.
```

## Output 5:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
no
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
neurology
Please enter the day that you would like to take an appointment.(Only week days)
friday

Appointment is done.
Your doctor is Tahir Temizkan.
Your appointment day is friday.
Please enter your name :
emin
Please enter your mail adress :
emin@hotmail.com
Please enter your age :
45
Please enter your telephone number :
5508887766
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
y
Please enter your height(in centimeters):
190
Please enter your weight(in kilograms):
89

Minimum Calorie Amount: 1694.21
BMI: 24.653739612188367

      Patient Infos
*****
Patient Name: emin
Patient Mail Adress: emin@hotmail.com
Patient Age: 45
Patient Telephone Number: 5508887766

      Appointment Infos
*****
Selected Department: neurology
Selected Day of appointment: friday
Do you have a health insurance?(type "y or n" if you have one)
y
Cost is 40$.
```

## Output 6:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
no
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
neurology
Please enter the day that you would like to take an appointment.(Only week days)
monday

Appointment is done.
Your doctor is Talha Yavçın.
Your appointment day is monday.
Please enter your name :
ahmet
Please enter your mail adress :
ahmet@gmail.com
Please enter your age :
69
Please enter your telephone number :
5361112233
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
y
Please enter your height(in centimeters):
162
Please enter your weight(in kilograms):
78

Minimum Calorie Amount: 1291.24
BMI: 29.72107910379515

      Patient Infos
*****
Patient Name: ahmet
Patient Mail Address: ahmet@gmail.com
Patient Age: 69
Patient Telephone Number: 5361112233

      Appointment Infos
*****
Selected Department: neurology
Selected Day of appointment: monday
Do you have a health insurance?(type "y or n" if you have one)
n
Cost is 80$.
```



## Output 7:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
no
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
dermatology
Please enter the day that you would like to take an appointment.(Only week days)
tuesday

Appointment is done.
Your doctor is Büşra Uzunkürek.
Your appointment day is tuesday.
Please enter your name :
aysegül
Please enter your mail adress :
aysegül@yahoo.com
Please enter your age :
34
Please enter your telephone number :
5313334455
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
no

      Patient Infos
*****
Patient Name: aysegül
Patient Mail Adress: aysegül@yahoo.com
Patient Age: 34
Patient Telephone Number: 5313334455

      Appointment Infos
*****
Selected Department: dermatology
Selected Day of appointment: tuesday
Do you have a health insurance?(type "y or n" if you have one)
yes
Cost is 40$.
```

## Output 8:

```
Welcome to Hospital Above.
To get to know our beloved doctors and see their availability throughout the week please enter the word "yes or no".
no
Please enter the department that you would like to take an appointment.(Cardiology,Plastic Surgery,Neurology,Dermatology)
dermatology
Please enter the day that you would like to take an appointment.(Only week days)
wednesday

Appointment is done.
Your doctor is Selahattin Ege Karagözlü.
Your appointment day is wednesday.
Please enter your name :
gizem
Please enter your mail adress :
gizem@hotmail.com
Please enter your age :
31
Please enter your telephone number :
5055554433
Would you like to see your needed minimal calorie amount per day and your BMI?(if so please enter the key letter "y or n")
no

      Patient Infos
*****
Patient Name: gizem
Patient Mail Adress: gizem@hotmail.com
Patient Age: 31
Patient Telephone Number: 5055554433

      Appointment Infos
*****
Selected Department: dermatology
Selected Day of appointment: wednesday
Do you have a health insurance?(type "y or n" if you have one)
no
Cost is 80$.
```

