

Name : Anupam Kunwar
Reg : 19BCE1369

Q1 :

```
import java.util.Scanner;
class billing{

    static double computeBill(int n1){
        double cost = n1+(0.08*n1);
        return cost;
    }

    static double computeBill(int n1,int n2){
        double cost = (n1*n2)+(n1*n2*0.08);
        return cost;
    }

    static double computeBill(int n1,int n2,int n3){
        double cost = (n1*n2);
        double discount = (n3*cost)/100;
        cost = cost - discount;
        double tax = 0.08*cost;
        cost = cost + tax;
        return cost;
    }

    public static void main(String args[]){
        int n1,n2,n3;
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the cost of book : ");
        n1 = in.nextInt();
        System.out.println("Enter the number of books : ");
        n2 = in.nextInt();
        System.out.println("Enter the coupon discount : ");
        n3 = in.nextInt();
        System.out.println("The cost of buying one book of "+n1+" cost is : "+computeBill(n1));
        System.out.println("The cost of buying "+n2+" books of "+n1+" cost is : "+computeBill(n1,n2));
        System.out.println("The cost of buying "+n2+" books of "+n1+" cost and "+n3+" discount is : "+computeBill(n1,n2,n3));
    }
}
```

Output :

```
piratepanda@SastaPC:~/Documents/javab$ cd /home/piratepanda/Documents/javab ; /usr/bin/env /opt/java/jdk-11.0.10/bin/java -Dfile.encoding=UTF-8 -cp /home/piratepanda/.config/Code/User/workspaceStorage/7cd970af7146c115fc05e352b2358487/redhat.java/jdt_ws/javab_183a9f85/bin billing
Enter the cost of book :
20
Enter the number of books :
3
Enter the coupon discount :
10
The cost of buying one book of 20 cost is : 21.6
The cost of buying 3 books of 20 cost is : 64.8
The cost of buying 3 books of 20 cost and 10 discount is : 58.32
piratepanda@SastaPC:~/Documents/javab$
```

Q2 :

patient.java

```
import java.util.Scanner;
public class patient{
int id,age,blood;

public patient(){
id=0;
age=0;
blood=0;
}

public patient(int a,int b,int c){
id=a;
age=b;
blood=c;
}

public static int getId(){
Scanner in = new Scanner(System.in);
System.out.println("Enter ID : ");
int n1 = in.nextInt();
return n1;
}

public static int getAge(){
Scanner in = new Scanner(System.in);
System.out.println("Enter age : ");
int n1 = in.nextInt();
return n1;
}

public static int getBlood(){
Scanner in = new Scanner(System.in);
System.out.println("Enter Blood : ");
int n1 = in.nextInt();
return n1;
}

public void Display(){
```

```

System.out.print("ID\tAge\tBlood\n");
System.out.print(id+"\t"+age+"\t"+blood+"\n");
}
}

```

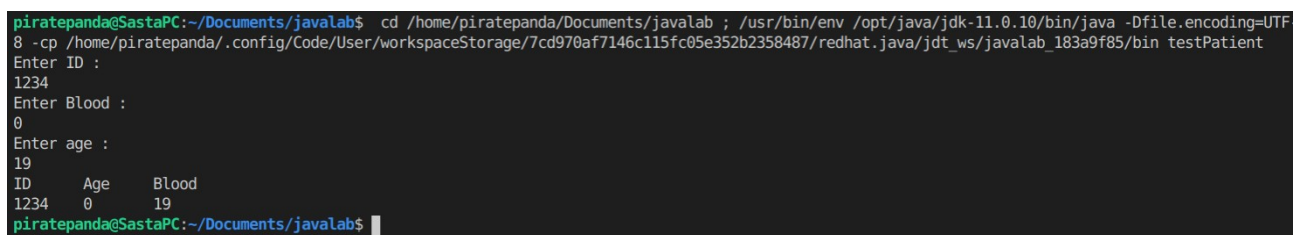
testPatient.java

```

public class testPatient extends patient {
public static void main(String args[]){
int id,blood,age;
id = getId();
blood = getBlood();
age = getAge();
patient obj = new patient(id,blood,age);
obj.Display();
}
}

```

Output :



```

piratepanda@SastaPC:~/Documents/javalab$ cd /home/piratepanda/Documents/javalab ; /usr/bin/env /opt/java/jdk-11.0.10/bin/java -Dfile.encoding=UTF
8 -cp /home/piratepanda/.config/Code/User/workspaceStorage/7cd970af7146c115fc05e352b2358487/redhat.java/jdt_ws/javalab_183a9f85/bin testPatient
Enter ID :
1234
Enter Blood :
0
Enter age :
19
ID      Age      Blood
1234    0        19
piratepanda@SastaPC:~/Documents/javalab$

```

.

Q3 :

Solution :

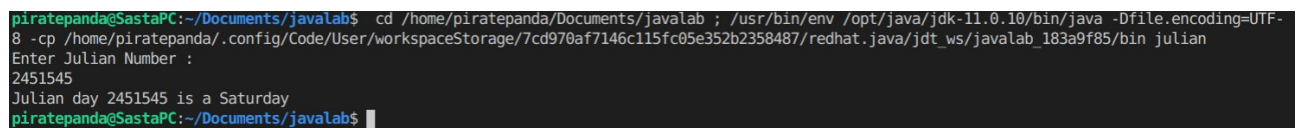
```

import java.util.Scanner;
public class julian{
public static void main(String args[]){
Scanner in = new Scanner(System.in);
System.out.println("Enter Julian Number : ");
int jul = in.nextInt();
int weekday = (jul+1)%7;
switch(weekday){
case 0 :
System.out.println("Julian day "+jul+" is a Sunday");
break;
case 1 :
System.out.println("Julian day "+jul+" is a Monday");
break;
case 2 :
System.out.println("Julian day "+jul+" is a Tuesday");
break;

```

```
case 3 :
System.out.println("Julian day "+jul+" is a Wednesday");
break;
case 4 :
System.out.println("Julian day "+jul+" is a Thursday");
break;
case 5 :
System.out.println("Julian day "+jul+" is a Friday");
break;
case 6 :
System.out.println("Julian day "+jul+" is a Saturday");
break;
}
}
}
```

Output :



```
piratepanda@SastaPC:~/Documents/javalab$ cd /home/piratepanda/Documents/javalab ; /usr/bin/env /opt/java/jdk-11.0.10/bin/java -Dfile.encoding=UTF-8 -cp /home/piratepanda/.config/Code/User/workspaceStorage/7cd970af7146c115fc05e352b2358487/redhat.java/jdt_ws/javalab_183a9f85/bin julian
Enter Julian Number :
2451545
Julian day 2451545 is a Saturday
piratepanda@SastaPC:~/Documents/javalab$
```