/\*1.Write a java application to accept an integer number, check and display the message whether the given number is positive/negative or neutral number. \*/

```
import java.util.Scanner;
class CheckNo{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println();
System.out.print("Enter an integer number ::");
int num=s.nextInt();
//System.out.println(num);
if(num>0)
System.out.println("Given no "+num+" is positive number.");
else if(num<0)
System.out.println("Given no "+num+" is negative number.");
else
System.out.println("Given no "+num+" is neutral number.");
System.out.println("========");
}//Close of main
}//Close of class
//OUTPUT
Enter an integer number ::-5
Given no -5 is negative number.
```

# /\*2.Write a java application to accept three numbers, check and display the highest of the given three numbers. \*/

```
import java.util.Scanner;
class HighestOf3No{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println();
System.out.print("Enter three numbers ::");
int a=s.nextInt();
//System.out.println(a);
int b=s.nextInt();
//System.out.println(b);
int c=s.nextInt();
//System.out.println(c);
if(a>b)
if(a>c)
 System.out.println("Highest number="+a);
```

```
else
System.out.println("Highest number="+c);
else
if(b>c)
 System.out.println("Highest number="+b);
 else
 System.out.println("Highest number="+c);
}//Close of main
}//Close of class
//OUTPUT
Enter three numbers ::45
99
66
Highest number=99
Enter three numbers :: 101
25
100
Highest number=101
/*3.Write a java application to accept three numbers, check and
display the lowest of the given three numbers.
import java.util.Scanner;
class LowestOf3No{
```

```
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println();
System.out.print("Enter three numbers ::");
int a=s.nextInt();
System.out.println(a);
int b=s.nextInt();
System.out.println(b);
int c=s.nextInt();
System.out.println(c);
if(a<b)
if(a<c)
 System.out.println("Lowest number="+a);
 else
 System.out.println("Lowest number="+c);
else
if(b<c)
 System.out.println("Lowest numbe=:"+b);
 else
 System.out.println("Lowest number="+c);
}//Close of main
}//Close of class
```

#### //OUTPUT

Enter three numbers ::45

Lowest number=21

Enter three numbers ::11

22

44

Lowest number=11

# /\*4.Write a java application to accept four numbers, check and display the highest of the given four numbers. \*/

```
import java.util.Scanner;
class HighestOf4No{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println();
System.out.print("Enter four numbers ::");
int a=s.nextInt();
//System.out.println(a);
int b=s.nextInt();
//System.out.println(b);
int c=s.nextInt();
//System.out.println(c);
int d=s.nextInt();
//System.out.println(d);
```

```
if(a>b)
if(a>c)
  if(a>d)
  System.out.println("Highest number="+a);
  else
  System.out.println("Highest number="+d);
else if(c>d)
 System.out.println("Highest number="+c);
else
 System.out.println("Highest number="+d);
else
 if(b>c)
  if(b>d)
  System.out.println("Highest number="+b);
  else
  System.out.println("Highest number="+d);
 else
 if(c>d)
  System.out.println("Highest number="+c);
  else
  System.out.println("Highest number="+d);
System.out.println("=======");
}//Close of main
}//Close of class
```

### 

Highest number=548545

/\*5.Write a java application to accept five numbers, check and display the smallest of the given five numbers. \*/

```
import java.util.Scanner;
class LowestOf5No{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println();
System.out.print("Enter five numbers ::");
int a=s.nextInt();
//System.out.println(a);
```

```
int b=s.nextInt();
//System.out.println(b);
int c=s.nextInt();
//System.out.println(c);
int d=s.nextInt();
//System.out.println(d);
int e=s.nextInt();
//System.out.println(e);
if(a<b)
 if(a<c)
  if(a<d)
   if(a<e)
    System.out.println("Smallest number="+a);
    else
    System.out.println("Smallest number="+e);
  else
    if(d<e)
    System.out.println("Smallest number="+d);
    else
    System.out.println("Smallest number="+e);
 else
  if(c<d)
   if(c<e)
    System.out.println("Smallest number="+c);
    else
```

```
System.out.println("Smallest number="+e);
  else
   if(d<e)
   System.out.println("Smallest number="+d);
   else
   System.out.println("Smallest number="+e);
else
if(b<c)
  if(b < d)
   if(b<e)
   System.out.println("Smallest number="+b);
   else
   System.out.println("Smallest number="+e);
  else
   if(d<e)
   System.out.println("Smallest number="+d);
   else
   System.out.println("Smallest number="+e);
 else
  if(c<d)
   if(c<e)
   System.out.println("Smallest number="+c);
   else
   System.out.println("Smallest number="+e);
  else
```

```
if(d<e)
   System.out.println("Smallest number="+d);
   else
   System.out.println("Smallest number="+e);
System.out.println("=======");
}//Close of main
}//Close of class
//OUTPUT
Enter five numbers ::154
555
854
945
454
Smallest number=154
Enter five numbers :: 16665
58585
15154
84889
59596
Smallest number=15154
_____
```

/\*6.Write a java application software to calculate and print electricity bill of the consumer as per the chart given below:-

UNIT	=========	RATE PER UNIT
0-100		6.0
101-200		5.50
201-abov	e	5.0

Apart from this a fixed meter rental charge Rs.200/- is to be paid by consumer per month.

=====Electricity	Bill====dated:	<b>V</b>
Meter No.	·······	
<b>Unit Consumed</b>	·······	
Rate per Unit	:	
Bill amount in Rs.	· -	
Meter rental charg	ge in Rs. :	
Meter rental charg Net Bill amount in		*/
		*/
Net Bill amount in		*/
Net Bill amount in import java.util.*;	Rs. :	*/
Net Bill amount in import java.util.*; class ElectricityBill{	<b>Rs. :</b>	*/

```
unit=rate=billAmt=net=0.0;
final double rental=200.0;
boolean flag=true;
System.out.println();
System.out.print("Enter meter no.
                                      ::");
long mno=s.nextLong();
//System.out.println(mno);
if(mno>0){
System.out.print("Enter unit consumed
                                            ::");
unit=s.nextDouble();
//System.out.println(unit);
if(unit>=0)
 if(unit<=100)
  rate=6.0;
 else
  if(unit<=200)
   rate=5.50;
   else
else{
flag=false;
System.out.println("Invalid unit entered,try again!");}
}else{
flag=false;
System.out.println("Invalid Meter No. entered,try again!");}
```

```
if(flag){
billAmt=unit*rate;
net=billAmt+rental;
System.out.println("=====Electricity Bill====dated:"+new Date());
System.out.println("Meter no.
                                     :"+mno);
System.out.println("Unit consumed
                                     :"+unit);
System.out.println("Rate per Unit
                                     :"+rate);
System.out.println("-----
System.out.println("Bill Amount is Rs.
                                     :"+billAmt);
System.out.println("Meter rental charge in Rs.
System.out.println("-----
System.out.println("Net Bill Amount in Rs. :"+net);
System.out.println("========");
}//Close of if(flag)
}//Close of main
}//Close of class
//OUTPUT
Enter meter no.
                ::1333551
Enter unit consumed
                     ::49.0
=====Electricity Bill====dated:Thu Jan 14 21:44:30 IST 2016
Meter no.
                     :1333551
Unit consumed
                     :49.0
Rate per Unit
                     :6.0
```

Bill Amount is Rs. :294.0 Meter rental charge in Rs. :200.0 Net Bill Amount in Rs. :494.0 \_\_\_\_\_\_ Enter meter no. ::1333552 Enter unit consumed ::161.0 =====Electricity Bill====dated:Thu Jan 14 21:44:44 IST 2016 Meter no. :1333552 Unit consumed :161.0 Rate per Unit :5.5 Bill Amount is Rs. :885.5 Meter rental charge in Rs. :200.0 Net Bill Amount in Rs. :1085.5

Enter meter no. ::1333553

Enter unit consumed ::350.0

=====Electricity Bill====dated:Thu Jan 14 21:45:09 IST 2016

Meter no. :1333553

Unit consumed :350.0

Rate per Unit :5.0

Bill Amount is Rs. :1750.0		
Meter rental charge in Rs. :20	00.0	
Net Bill Amount in Rs. :1950.0	=======================================	
/*7.Write a java application purchase of goods as per t		
<b>Total Purchase Amou</b>	nt ======	=== Discount in Percentage
1000-2000		10%
2001-5000		15%
5001-above	algh	20%
Read/Scan item/product on name,m.r.p, quantity take		ne ,item company
#further 1% vat is to be pa	nid by the cons	sumer an getting bil:-
======Bill/Invoicin	ng details====	dated:
Item Code:	<b>:</b>	
Item Name:	<b>:</b>	
Item Type:	<b>:</b>	
Company Name:	<b>:</b>	
M.R.P in Rs.:	<b>:</b>	
Quantity taken:	:	

To	tal amount in Rs.:	<b>:</b>
Dis	scount in percentage	e: :%
Dis	scount amount in Rs	S.: :
Pa	yable amount in Rs.	: :
1%	VAT in Rs.:	:
Ne	t Bill/Invoice amoui	nt in Rs.: :
import jav	a.util.*;	
class Invoi	ice{	
public stat	tic void main(String args[])	){
Scanner s:	=new Scanner(System.in);	
double to	tal, rate, payable, discount, i	net,vat,mrp,quantity;
total=rate	=payable=discount=net=v	vat=mrp=quantity=0.0;
String cNa	me="",itemName="";	
boolean fl	ag=true;	
System.οι	ut.println();	
System.οι	ut.print("Enter Item Code	::");
int itemCo	ode=s.nextInt();	
//System.	out.println(itemCode);	
if(itemCod	de>0){	
System.or	ıt.print("Enter Item Name	e ::");

```
s.nextLine();
itemName=s.nextLine().toUpperCase();
//System.out.println(itemName);
System.out.print("Enter Company Name
                                                  ::");
cName=s.nextLine().toUpperCase();
//System.out.println(cName);
System.out.print("Enter M.R.P. of Item
                                                  ::");
mrp=s.nextDouble();
//System.out.println(mrp);
if(mrp>0){
System.out.print("Enter Quantity taken
quantity=s.nextInt();
//System.out.println(quantity);
if(quantity>0){
total=mrp*quantity;
if(total>=1000)
 if(total<=2000)
  rate=10.0;
 else
  if(total<=5000)
   rate=15.0;
  else
   rate=20.0;
}else {
flag=false;
```

```
System.out.println("Invalid quantity entered, try again !");}
}else{
flag=false;
System.out.println("Wrong M.R.P. is entered, try again !");}
}else {flag=false;
System.out.println("Invalid Item Code is entered, try again !");}
if(flag){
discount=total*rate/100;
payable=total-discount;
vat=payable*1/100;
net=payable+vat;
System.out.println("=====Bill/Invoicing details===dated:"+new Date());
System.out.println("Item Code
                                             :"+itemCode);
                                       :"+itemName);
System.out.println("Item Name
System.out.println("Company Name
                                             :"+cName);
System.out.println("M.R.P. in Rs.
                                             :"+mrp);
System.out.println("Quantity taken
                                            :"+quantity);
System.out.println("-----");
System.out.println("Total amount in Rs.
                                                  :"+total);
System.out.println("Discount in percentage :"+rate+"%");
System.out.println("Discount in Rs.
                                            :"+discount);
System.out.println("-----");
System.out.println("Payable Amount in Rs. :"+payable);
System.out.println("1% vat in Rs.
                                            :"+vat);
System.out.println("-----");
```

System.out.println("Net Invoice amount in Rs. :"+net);

System.out.println("========");

}//Close of if(flag)

}//Close of main

}//Close of class

#### //OUTPUT

Enter Item Code ::1

Enter Item Name :: CANVAS SHOE

Enter Company Name ::SPARK

Enter M.R.P. of Item ::1500.0

Enter Quantity taken ::1.0

=====Bill/Invoicing details===dated:Fri Jan 15 01:07:32 IST 2016

Item Code :1

Item Name :CANVAS SHOE

Company Name :SPARK

M.R.P. in Rs. :1500.0

Quantity taken :1.0

-----

Total amount in Rs. :1500.0

Discount in percentage :10.0%

Discount in Rs. :150.0

-----

Payable Amount in Rs. :1350.0

1% vat in Rs. :13.5


Net Invoice amount in Rs. :1363.5

