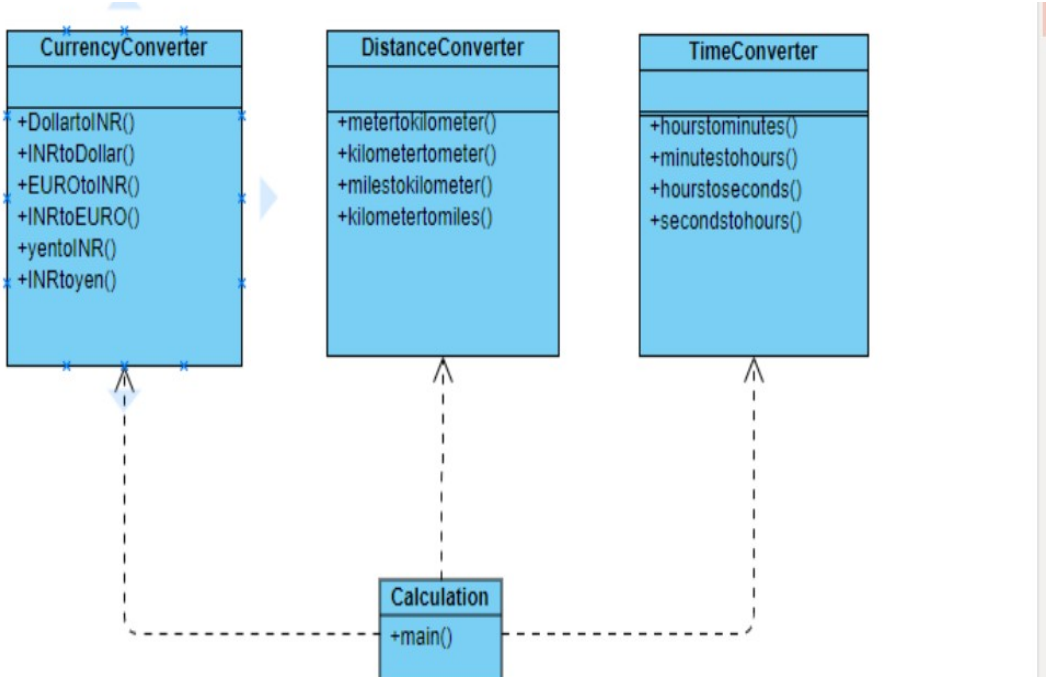
EX.NO.:02	**CURRENCY CONVERTER**
DATE: 12-07-19	

AIM:
To develop a java program console application to convert currency with DOLLAR TO INR, INR TO DOLLAR, INR TO EURO, EURO TO INR, YEN TO INR, INR TO YEN display the result.

REQUIREMENT:
Create a class currency converter with the following:-
Data member: dollor to inr, inr to dollar, inr to euro, euro to inr, yen to inr, inr to yen.
Member function: Read the value, compute the value, print the value.

ALGORITHM:
STEP-1 Declare the package currency library converter app.
STEP-2 Declare a class name of currency converter.
STEP-3 Declare a constructor with initial attribute.
STEP-4 Declare getdata member and member function.
STEP-5 Declare class calculation with a static main function.
STEP-6 Create object with dollar, inr, euro,yen.
STEP-7 Get the input from user.
STEP-8 Calculate the converter
STEP-9 Display result.

CLASS DIAGRAM:



PROGRAM:

```
/*
* this program is used to convert currency,distance,time.
developed by Jacob s

*/
package converterlibrary;

public class currencyconverter {
public static double dollartoinr(double dollar)
{
double inr;
inr=dollar*68.56;
return inr;
}
public static double inrtodollar(double inr)
{
double dollar;
dollar=inr/68.56;
return dollar;
}
public static double eurotoinr(double euro)
{
double inr;
inr=euro*77.39;
return inr;
}
public static double inrtoeuro(double inr)
{
double euro;
euro=inr/68.56;
return inr;
}
public static double yentoinr(double inr)
{
double yen;
yen=inr*0.62;
return yen;
}public static double inrtoyen(double yen)
{
double inr;
inr=yen/0.62;
return yen;
```

```
}


}



/*
* this program is used to convert currency,distance,time.
developed by Jacob s

*/


package converterapp;
import java.util.Scanner;
import converterlibrary.*;

public class calculation1 {

public static void main(String[]args) {
double value1,value2;
int option;
Scanner sc=new Scanner(System.in);
while(true)
{
System.out.println("1.dollartoinr");
System.out.println("2.inrtodollar");
System.out.println("3.eurotoinr");
System.out.println("4.inrtoeuro");
System.out.println("5.yentoinr");
System.out.println("6.inrtoyen");
System.out.println("7.metertokm");
System.out.println("8.kmtometer");
System.out.println("9.milestokm");
System.out.println("10.kmtomiles");
System.out.println("11.hourstomins");
System.out.println("12.minstohours");
System.out.println("13.hourstosecs");
System.out.println("14.secstohours");
System.out.println("15.exit");
System.out.println("enter the choice");
option=sc.nextInt();
switch(option)
{
case 1:
System.out.print("enter the amount in dollar");
value1=sc.nextDouble();
value2=currencyconverter.dollartoinr(value1);
System.out.printf("%2f dollar is equal to %2f inr.\n",value1,value2);
break;
case 2:
```

```
System.out.print("enter the amount in inr");
value1=sc.nextDouble();
value2=currencyconverter.inrtodollar(value1);
System.out.printf("%2f inr is equal to %2f dollar.\n",value1,value2);
break;
case 3:
System.out.print("enter the amount in euro");
value1=sc.nextDouble();
value2=currencyconverter.eurotoinr(value1);
System.out.printf("%2f euro is equal to %2f inr.\n",value1,value2);
break;
case 4:
System.out.print("enter the amount in inr");
value1=sc.nextDouble();
value2=currencyconverter.inrtoeuro(value1);
System.out.printf("%2f inr is equal to %2f euro.\n",value1,value2);
break;
case 5:
System.out.print("enter the amount in yen");
value1=sc.nextDouble();
value2=currencyconverter.yentoinr(value1);
System.out.printf("%2f yen is equal to %2f inr.\n",value1,value2);
break;
case 6:
System.out.print("enter the amount in inr");
value1=sc.nextDouble();
value2=currencyconverter.inrtoyen(value1);
System.out.printf("%2f int is equal to %2f yen.\n",value1,value2);
break;
case 7:
System.out.print("enter the amount in meter");
value1=sc.nextDouble();
value2=distanceconverter.metertokm(value1);
System.out.printf("%2f meter is equal to %2f km.\n",value1,value2);
break;
case 8:
System.out.print("enter the amount in km");
value1=sc.nextDouble();
value2=distanceconverter.kmtometer(value1);
System.out.printf("%2f dollar is equal to %2f inr.\n",value1,value2);
break;
case 9:
System.out.print("enter the amount in miles");
value1=sc.nextDouble();
value2=distanceconverter.milestokm(value1);
System.out.printf("%2f miles is equal to %2f km.\n",value1,value2);
break;
case 10:
System.out.print("enter the amount in km");
value1=sc.nextDouble();
value2=distanceconverter.kmtomiles(value1);
System.out.printf("%2f km is equal to %2f miles.\n",value1,value2);
```

```
break;
case 11:
System.out.print("enter the time in hours");
value1=sc.nextDouble();
value2=timeconverter.hourstomins(value1);
System.out.printf("%2f hours is equal to %2f mins.\n",value1,value2);
break;
case 12:
System.out.print("enter the time in mins");
value1=sc.nextDouble();
value2=timeconverter.minstohours(value1);
System.out.printf("%2f hours is equal to %2f secs.\n",value1,value2);
break;
case 13:
System.out.print("enter the time in hours");
value1=sc.nextDouble();
value2=timeconverter.hourstosecs(value1);
System.out.printf("%2f hours is equal to %2f secs.\n",value1,value2);
break;
case 14:
System.out.print("enter the time in secs");
value1=sc.nextDouble();
value2=timeconverter.secstohours(value1);
System.out.printf("%2f secs is equal to %2f inr.\n",value1,value2);
break;
default:
System.out.print("please enter a valid number@@");
}
if(option==15)
{
break;
}
}
}
}
```

OUTPUT:

```
1.dollar to INR conversion
2.INR to dollar conversion
3.eURO to INR conversion
4.INR to eURO conversion
5.yen to INR conversion
6.INR to yen conversion
7.meter yo KM conversion
8.KM to meter conversion
9.miles to KM conversion
10.KM to miles conversion
11.hours to minuites conversion
12.minuites to hours conversion
13.hours to Seconds conversion
14.Seconds to hours conversion
15.Exit
Enter your choice
1
Enter currency in dollar10
10.00 dollar is equal to 685.60 INR
```

RESULT:

Thus the java application is generated successfully