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/*1.Write a program that prompts the user to input a positive integer.
It should then output a message indicating whether the number is a prime
number. */
import java.util.Scanner;
public class Prime {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
int a,b,i,count=0;
boolean prime=false;
System.out.println("Enter a number");
             Scanner scanner=new Scanner(System.in);
        b=scanner.nextInt();
      if(b==0||b==1) {
             System.out.println("it is not prime no");
      }
      else {
      for(i=2;i<=b-1;i++) {</pre>
             if(b%i==0) {
                    count++;
             }
      if(count==0) {
             System.out.println("is Prime no");
      }
      else {
             System.out.println("Not prime no");
      }
      }
      }
}
/*2.Write a program that prompts the user to input a positive integer.
It should then print the multiplication table of that number. */
import java.util.Scanner;
public class Multiplication {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
int b;
             System.out.println("Enter the Number");
Scanner scanner=new Scanner(System.in);
b=scanner.nextInt();
for(int i=1;i<=10;i++) {</pre>
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System.out.println(b+"*"+i+"="+b*i);
}
      }
}
 * 3.A student will not be allowed to sit in exam if his/her attendence is
less than 75%.
Take following input from user
Number of classes held
Number of classes attended.
And print
percentage of class attended
Is student is allowed to sit in exam or not.
*/
import java.util.Scanner;
public class Attendance {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             float a,b,c;
Scanner scanner=new Scanner(System.in);
System.out.println("Enter Total No of Classes ");
a=scanner.nextInt();
System.out.println("Enter No. of Classes Attended");
b=scanner.nextInt();
c=(b/a)*100;
System.out.println("The percentage of class attended"+c);
if(c<75) {
      System.out.println("you are not eligible to attend the exam");
}
else {
      System.out.println("you are eligible to attend the exam");
}
      }
}
 * 4.A company decided to give bonus of 5% to employee if his/her year of
service is more than 5 years.
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Ask user for their salary and year of service and print the net bonus
amount. Note- create a method EmployeeBonus to calculate the bonus and
return it.
*/
import java.util.Scanner;
public class Employee {
      static int year, salary, newsalary;
      static double bonus;
      static double Employeebonus() {
             double res = (int) (salary * .05);
             return res;
      }
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             Scanner scanner = new Scanner(System.in);
             System.out.println("Enter your year of service");
             year = scanner.nextInt();
             System.out.println("Enter your salary");
             salary = scanner.nextInt();
             if (year > 5) {
                   bonus = Employeebonus();
                   System.out.println("your bonus amount is " + bonus);
                   System.out.println("your salary is" + (salary + bonus));
             } else {
                   System.out.println("you are not eligible for bonus
salary is " + salary);
      }
}
* 5. Write a program to input the following details:
i)Employee Name
ii)Employee Salary
iii) Employee Year of joining
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Calculate the Loyalty bonus of the Employee's by

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a)if the year of their joining is on or before than 2017, and their Salary
is more than 30000/-,
then the bonus will be 22% of the salary.
b)if the year of their joining is on or before than 2017, and their Salary
is less than 30000/-,
then the bonus will be 33% of the salary.
c)if the year of their joining is on or before than 2012,
then the bonus will be 40% of the salary.
d)if the year of their joining is after 2017, and their Salary is less than
30000/-,
then the bonus will be 15% of the salary.
e)if the year of their joining is after 2017, and their Salary is more than
then the bonus will be 10% of the salary.
*/
import java.util.Scanner;
public class EmployeeBonus {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             Scanner scanner = new Scanner(System.in);
             String name;
             int bonus, newsalary;
             int salary, year;
             System.out.println("Name");
             name = scanner.next();
             System.out.println("Salary");
             salary = scanner.nextInt();
             System.out.println("Year of joining");
             year = scanner.nextInt();
             if(year<2012) {
                    bonus=(int) (.4*salary);
                    newsalary =salary+bonus;
                    System.out.println("the bonus is"+bonus);
                    System.out.println("the added salary is "+newsalary);
             }
             else if(year<=2017 && salary>30000) {
                    bonus=(int) (.22*salary);
                    newsalary =salary+bonus;
                    System.out.println("the bonus is"+bonus);
                    System.out.println("the added salary is "+newsalary);
             else if(year<=2017 && salary<30000) {</pre>
                    bonus=(int) (.33*salary);
                    newsalary =salary+bonus;
                    System.out.println("the bonus is"+bonus);
                    System.out.println("the added salary is "+newsalary);
             else if(year>2017 && salary<30000) {
                    bonus=(int) (.15*salary);
                    newsalary =salary+bonus;
                    System.out.println("the bonus is"+bonus);
                    System.out.println("the added salary is "+newsalary);
             }
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else if(year>2017 && salary>30000)
                   bonus=(int) (.10*salary);
                   newsalary =salary+bonus;
                   System.out.println("the bonus is"+bonus);
                   System.out.println("the added salary is "+newsalary);
            }
      }
}
* 6.Write a program to check for the occurance of a particular character
in a string and display howmany times it has occured.
note: take the String and the character to be checked as a input from the
user.
 */
import java.util.Scanner;
public class Ocurrence {
      public static void main(String[] args) {
             Scanner <u>s</u>=new Scanner(System.in);
             System.out.print("enter string : ");
             String s1=s.next();
             char[] c=s1.toCharArray();
             System.out.println("-----
            System.out.print("Enter the character which you want to count
number of occurence : ");
             char n=s.next().charAt(0);
             int count=0;
            for(int i=0;i<c.length;i++)</pre>
                   if(c[i]==n){
                          count++;
                   }
            System.out.println("Number of occurrence of the character
"+n+" is "+count);
      }
}
```

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7. Write a program to implement nested try-catch block for NULL Pointer
exception
and NumberFormat Exception
*/
import java.util.Scanner;
public class Exception1 {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
Scanner scanner=new Scanner(System.in);
System.out.println("Enter charcter");
String string=null;
try {
      try {
             System.out.println(string.length()); //null pointer exception
      catch (Exception e) {
             // TODO: handle exception
             System.out.println("Null pointer exception");
             System.out.println(e);
      }
      try {
             int k=Integer.parseInt(string); //number format exception
      catch (Exception e) {
             // TODO: handle exception
             System.out.println("Numberformatexception");
             System.out.println(e);
      }
catch (Exception e) {
      // TODO: handle exception
      System.out.println("exception");
}
      }
}
```