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package test;
import java.util.Scanner;
public class DateAndTimeTester {
      public void run() {
            Scanner keyboard = new Scanner(System.in);
            System.out.println("enter date and time in the format MM/DD hh:mm is
Month / Day Hour : Minute respectively.");
            String u_input= keyboard.nextLine();
            if(isValid(u_input)) // IF all parameters are passed result is true
else false
                  System.out.println("The entered date and time format is valid");
            else
                  System.out.println("The entered date and time format is not
valid");
      }
      public boolean isValid(String u_input) {
            String[] arr = u_input.split(" ");// splits array when " "(space) is
dected
            String datearr=arr[0];
            String timearr=arr[1];
            String[] arr1 = datearr.split("/");// splits array when / is detected
            String MONTH=arr1[0];
            String DAY=arr1[1];
            String[] arr2 = timearr.split(":");// splits array when : is detected
            String HOUR=arr2[0];
            String MIN=arr2[0];
            if (MONTH.length()==1)// checks if the value is entered in single digit
format or double digit
                  MONTH="0"+MONTH;// converts single digit value to double digit by
adding 0 to MSB
            if (DAY.length()==1)
                  DAY="0"+DAY;
            if (HOUR.length()==1)
                  HOUR="0"+HOUR;
            if (MIN.length()==1)
                  MIN="0"+MIN;
            u_input= MONTH+"/"+DAY+" "+HOUR+":"+MIN;// Concatenates the new double
digit value into single user input
            if (isValidDate(u_input) && isValidTime(u_input))// returns true if
both of date and time format is correct
                  return true;
            else
                  return false;
      }
```

```
public boolean isValidDate(String Date) {
            int month= getMonth(Date);
            int day= getDay(Date);
            if ((month>0 \&\& month<=12) \&\& (day>0 \&\& day<=31)) // checks if month is
within the range of 12 and day is within range of 31
                  if((month==2 && day >29))// checks if February has 29 days or not
                        return false;
                  else
                        return true;
            else
                  return false;
      }
      public int getMonth(String Month) {
            String Month2=Month.substring(0,2);// takes first two characters for
month
            int M=Integer.parseInt(Month2);// casting string to integer
            return M;// returning integer value
      public int getDay(String Day) {
            String Day2=Day.substring(3,5);// takes fourth and fifth character for
day
            int D=Integer.parseInt(Day2); // casting string to integer
            return D; // returning integer value
      }
      public boolean isValidTime(String Time) {
            int hour=getHour(Time);
            int min=getMin(Time);
            if ((hour>0 && hour<=12) && (min>=0 && min<=59))// checks if hour is
within the range of 12 and min is within the range of 60
                  return true;
            else
                  return false;
      public int getHour(String Hour) {
            String Hour2=Hour.substring(6,8);// takes seventh and eighth character
for hour
            int H=Integer.parseInt(Hour2); // casting string to integer
            return H;// returning integer value
      public int getMin(String Min) {
            String Min2=Min.substring(9,11);// takes tenth and eleventh character
for min
            int M=Integer.parseInt(Min2); // casting string to integer
            return M; // returning integer value
      }
}
```