Monday 3rd June 2024

Symbolic Programming In Fortran [CSC212]

Use the fortran compiler at jdoodle.com to test the months program.

Summary of the Class

Due to the news of strike, there wasn't much people kn attendance for this class.

Unfortunately the compiler at jdoodle has problem with the goto statement.

You're advised to use the compiler at https://www.onlinegdb.com/online_fortran_compiler instead.

The months program is given below:

```
PROGRAM MONTHS
INTEGER CODE
WRITE(*,*)'SELECT CODE 1-12 TO DISPLAY MONTH'
WRITE(*,*)'(I.E SELECT 1 TO DISPLAY JANUARY, 6 ! TO
DISPLAY JUNE)'
READ(*,*)CODE
GOTO(10,20,30,40,50,60,70,80,90,100,110,120)CODE
10 WRITE(*,*)'THE MONTH IS JANUARY'
GOTO 130
20 WRITE(*,*)'THE MONTH IS FEBRUARY'
GOTO 130
30 WRITE(*,*)'THE MONTH IS MARCH'
GOTO 130
40 WRITE(*,*)'THE MONTH IS APRIL'
GOTO 130
50 WRITE(*,*)'THE MONTH IS MAY'
GOTO 130
60 WRITE(*,*)'THE MONTH IS JUNE'
GOTO 130
70 WRITE(*,*)'THE MONTH IS JULY'
GOTO 130
80 WRITE(*,*)'THE MONTH IS AUGUST'
GOTO 130
90 WRITE(*,*)'THE MONTH IS SEPTEMBER'
```

```
        GOTO 130
100 WRITE(*,*)'THE MONTH IS OCTOBER'
        GOTO 130
110 WRITE(*,*)'THE MONTH IS NOVEMBER'
        GOTO 130
120 WRITE(*,*)'THE MONTH IS DECEMBER'
130 STOP
END
```

```fortran
      PROGRAM MONTHS
      INTEGER CODE
      WRITE(*,*)'SELECT CODE 1 - 12 TO DISPLAY MONTH'
      WRITE(*,*)'(I.E SELECT 1 TO DISPLAY JANUARY, 6
     ! TO DISPLAY JUNE)'
      READ(*,*)CODE
      GOTO(10,20,30,40,50,60,70,80,90,100,110,120)CODE
10    WRITE(*,*)'THE MONTH IS JANUARY'
      GOTO 130
20    WRITE(*,*)'THE MONTH IS FEBRUARY'
      GOTO 130
30    WRITE(*,*)'THE MONTH IS MARCH'
      GOTO 130
40    WRITE(*,*)'THE MONTH IS APRIL'
      GOTO 130
50    WRITE(*,*)'THE MONTH IS MAY'
      GOTO 130
```

```
60        WRITE(*,*)'THE MONTH IS JUNE'
          GOTO 130
70        WRITE(*,*)'THE MONTH IS JULY'
          GOTO 130
80        WRITE(*,*)'THE MONTH IS AUGUST'
          GOTO 130
90        WRITE(*,*)'THE MONTH IS SEPTEMPER'
          GOTO 130
100       WRITE(*,*)'THE MONTH IS OCTOBER'
          GOTO 130
110       WRITE(*,*)'THE MONTH IS NOVEMBER'
          GOTO 130
120       WRITE(*,*)'THE MONTH IS DECEMBER'
130       STOP
          END
```