inputs

DD1/MM1/YY1 UT1 (day/month/year) time(oclock)

DD2/MM2/YY2\ UT2 (FOR GPS) (day/month/year) time(oclock)

IF MM ≤2

yy=YY-1

m=MM+12

IF MM >2

yy=YY

m=MM

JD1=INT(365.25\*yy1)+INT(30.6001\*(m+1))+DD1+(UT1\24)+1720198.5

MJD1= JD1-2400000.5

JD2(GPS)=INT(365.25\*yy2)+INT(30.6001\*(m+1))+DD2+(UT2\24)+1720198.5

MJD2(GPS)= JD2-2400000.5

GPS WEEK=INT((MJD2-MJD1)\7)

GPS DAY =(INT(MJD2-MJD1)%7 ) Note: “% “ means the remainder of division by 7

IF GPS DAY==0

Print ”GPSDAY =SUNDAY”

Else if

GPS DAY==1

Print ”GPSDAY =MONDAY”

Else if

GPS DAY==2

Print ”GPSDAY =TUESDAY”

Else if

GPS DAY==3

Print ”GPSDAY =Wednesday “

Else if

GPS DAY==4

Print ”GPSDAY =Thursday “

Else if

GPS DAY==5

Print ”GPSDAY =Friday “

Else if

GPS DAY==6

Print ”GPSDAY =Saturday “