

day of the week

```
// I, Ebuka Chibueze
certify this is my own
work and I have not
collaborated with anyone
// 10/04/2014
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
int main(int)
{
    int m, d, y, daycode,
    numdays; //m->Month d->Day y->Year
    printf("Enter
date(mm dd yyyy): ");
    scanf("%d %d %d",
&m, &d, &y);
    while(m!=0 && d!=0 &&
y!=0)
    {
        numdays = (((y-1)*3 -
65) + ((y-1)/4) - ((y-1)/100) + ((y-1)/400)); //numdays is
//the total number of
days within the year
plus the next year

        switch(m)
        { case 1: d = d;
          break;
          case 2: d = d+31;
          break;
```

day of the week (cont)

```
> case 3: d = d+28+31;
break;
case 4: d = d+31+28+31;
break;
case 5: d = d+30+31+28+31;
break;
case 6: d = d+31+30+31+28+31;
break;
case 7: d = d+30+31+30+31-
+28+31;
break;
case 8: d = d+31+30+31+30+31-
+28+31;
break;
case 9: d = d+31+31+30+31+30-
+31+28+31;
break;
case 10: d = d+30+31+31+30-
+31+30+31+28+31;
break;
case 11: d = d+31+30+31+31-
+30+31+30+31+28+31;
break;
case 12: d = d+30+31+30+31-
+31+30+31+30+31+28+31;
break;
}

if (((!(y%4) && (y%100)) || !
(y%400)) && m>=3)
{
```

day of the week (cont)

```
> d = d + 1;
}

numdays = numdays+d;
daycode = numdays%7;
//If daycode is 0->Sunday 1->-
Monday 2->Tuesday 3->Wed-
nesday 4->Thursday 5
if (daycode == 0)
printf("Sunday\n");
else if (daycode == 1)
printf("Monday\n");
else if (daycode == 2)
printf("Tuesday\n");
else if (daycode == 3)
printf("Wednesday\n");
else if (daycode == 4)
printf("Thursday\n");
else if (daycode == 5)
printf("Friday\n");
else if (daycode == 6)
printf("Saturday\n");

printf("Enter date(mm dd
yyyy):");
scanf("%d %d %d", &m, &d,
&y);
}
}
```

hypotenuse > function practice

```
#define _CRT_SECURE_NO_WARNINGS
#include <stdio.h>
#include <math.h>
double hyp(double a, double b)
// proto type must have semicolon
int main()
{
    double x,y,h;
    printf("enter x
y ");
    scanf("%lf %lf",
&x, &y);
    h = hyp(x,y);
    printf("hypotenuse
is :%lf\n", h);
}
return 0;
double hyp(double a, double b)
{
    double sum, result;
    sum = a*a + b*b;
    result = sqrt(sum);
    return result;
}
```

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