10.

/\*..............Program to Diplay the day of the year............\*/

#include<stdio.h>

#include<math.h>

void main()

{

int t,m,d,y,n,flag=0;

clrscr();

do

{

printf("\nEnter the date(dd/mm/yyyy) : ");

scanf("%d/%d/%d",&d,&m,&y);

if((d<=0||d>31)||(m<=0||m>12)||(y<1600||y>=9999))

printf("\nINVALID ENTRY!!!\n Try again\n");

else

break;

}while(1);

if(y % 4 == 0 && y % 100 != 0 || y % 400 == 0)

flag = 1;

t = y - 1900;

if(t<0)

t = t \* -1;

n = t / 4;

n = n + t +d;

switch (m)

{

case 1:

if(flag == 1)

n = n + 0;

else

n = n + 1;

break;

case 2:

if(flag == 1)

n = n + 1;

else

n = n + 4;

break;

case 3:

case 11:

n = n + 4;

break;

case 4:

case 7:

n = n + 0;

break;

case 5:

n = n + 2;

break;

case 6:

n = n + 5;

break;

case 8:

n = n + 3;

break;

case 9:

case 12:

n = n + 6;

break;

case 10:

n = n + 1;

break;

}

n = n % 7;

switch (n)

{

case 0:

printf("\n The day on date %d/%d/%d is Saturday.",d,m,y);

break;

case 1:

printf("\n The day on date %d/%d/%d is Sunday.",d,m,y);

break;

case 2:

printf("\n The day on date %d/%d/%d is Monday.",d,m,y);

break;

case 3:

printf("\n The day on date %d/%d/%d is Tuesday.",d,m,y);

break;

case 4:

printf("\n The day on date %d/%d/%d is wednesday.",d,m,y);

break;

case 5:

printf("\n The day on date %d/%d/%d is Thursday.",d,m,y);

break;

case 6:

printf("\n The day on date %d/%d/%d is Friday.",d,m,y);

break;

}

getch();

}

------------------------------------------------------------