Assignment-9

1.write a program which takes the month number as an input and display number of days in that month.

#include<stdio.h>

int main()

{

int m;

printf("enter a number");

scanf("%d",&m);

switch(m)

{

case 4:

case 6:

case 11:

case 9:

printf("30 days");

break;

case 2:

printf("28 or 29 days");

break;

case 3:

case 5:

case 7:

case 8:

case 10:

case 12:

printf("31 days");

default:

printf("invalid input");

}

getch();

}

2.write a menu driven program with the following options.

a.Addition

b.Subtraction

c.Multiplication

d.Division

e.Exit

#include<stdio.h>

#include<stdlib.h>

int main()

{

int a,b,r,x;

while(1)

{

printf("\n 1.Addition");

printf("\n 2.subtract");

printf("\n 3.multiple");

printf("\n 4.division");

printf("\n 5.exit");

printf("\n enter your choice.");

scanf("%d",&x);

switch(x)

{

case 1:

printf("enter two number");

scanf("%d%d",&a,&b);

r=a+b;

printf("%d",r);

break;

case 2:

printf("enter two number");

scanf("%d%d",&a,&b);

r=a-b;

printf("%d",r);

break;

case 3:

printf("enter two number");

scanf("%d%d",&a,&b);

r=a\*b;

printf("%d",r);

break;

case 4:

printf("enter two number");

scanf("%d%d",&a,&b);

r=a/b;

printf("%d",r);

break;

case 5:

exit(0);

default:

printf("invalid choice");

}

}

getch();

}

3.write a program which takes the day number of week and display a unique greeting message for the day.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int n;

printf("enter day number of week.");

scanf("%d",&n);

switch(n)

{

case 1: printf("SUNDAY");

break;

case 2: printf("MONDAY");

break;

case 3: printf("TUESDAY");

break;

case 4: printf("WEDNESDAY");

break;

case 5: printf("THURSDAY");

break;

case 6: printf("FRIDAY");

break;

case 7: printf("SATURDAY");

break;

default:

printf("invalid number");

}

getch();

}

4.

#include<stdio.h>

#include<stdlib.h>

int main()

{

int a,b,c,n;

while(1)

{

printf("\n 1. check isosceles triangle");

printf("\n 2. check right angle triangle");

printf("\n 3. check equilateral triangle");

printf("\n 4.exit");

printf("\n enter your choice ");

scanf("%d",&n);

switch(n)

{

case 1:

printf("enter three numbers");

scanf("%d%d%d",&a,&b,&c);

if(a==b || a!=c || b!=c)

printf("isosceles triangle");

else

printf(" not isosceles triangle");

break;

case 2:

printf("enter three numbers");

scanf("%d%d%d",&a,&b,&c);

if((a\*a)+(b\*b)==(c\*c) || (a\*a)+(c\*c)==(b\*b) || (b\*b)+(c\*c)==(a\*a))

printf(" right angle triangle");

else

printf("not right angle triangle");

break;

case 3:

printf("enter three numbers");

scanf("%d%d%d",&a,&b,&c);

if(a==b || a==c || b==c)

printf("equilateral triangle");

else

printf("not equilateral triangle");

break;

case 4:

exit(0);

default:

printf("invalid choice");

}

}

getch();

}

6.program to check whether a year is a leap or not .using switch statement

#include<stdio.h>

#include<stdlib.h>

int main()

{

int y,year;

printf("enter year.");

scanf("%d",&year);

y=year%400==0 || year%100==0 || year%4==0;

switch(y)

{

case 1:printf("%d is leap year",year);

break;

case 2:printf("%d is not a leap year",year);

break;

default:

printf(" %d is not a leap year",year);

}

getch();

}