**1)**

#include<stdio.h>

int main()

{

int n;

printf("enter the number of the month\n");

scanf("%d",&n);

switch(n)

{

case 1: printf("31 days");

break;

case 2: printf("28 days");

break;

case 3: printf("31 days");

break;

case 4: printf("30 days");

break;

case 5: printf("31 days");

break;

case 6: printf("30 days");

break;

case 7: printf("31 days");

break;

case 8:printf("31 days");

break;

case 9:printf("30 days");

break;

case 10:printf("31 days");

break;

case 11:printf("30 days");

break;

case 12:printf("31 days");

break;

default : printf("invalid input");

}

return 0;

}

**2)**

#include<stdio.h>

int main()

{

float p,q;

char n;

while(1)

{

printf("choose from following options:-\n 1.Addition\n 2.Subtraction\n 3.Multiplication\n 4.Division\n 5.exit\n");

scanf("%d",&n);

switch(n)

{

case 1:printf("enter two numbers\n");

scanf("%f%f",&p,&q);

printf("addition is %f\n",p+q);

break;

case 2:printf("enter two numbers\n");

scanf("%f%f",&p,&q);

printf("subtraction is %f\n",p-q);

break;

case 3:printf("enter two numbers\n");

scanf("%f%f",&p,&q);

printf("multiplication is %f\n",p\*q);

case 4:printf("enter two numbers\n");

scanf("%f%f",&p,&q);

printf("Answer is %f\n",p/q);

break;

case 5:

return;

}

}

return 0;

}

**3)**

#include<stdio.h>

int main()

{

int n;

printf("enter the number of the day\n");

scanf("%d",&n);

switch(n)

{

case 1:

printf("monday\n Fir se nayi Suruat :-)\n");

break;

case 2:

printf("tuesday\n Aaj mangalwar hai,mahavir ka war hai sachhe man se jo koi bole uuska bera paar hai:-)");

break;

case 3:

printf("wednesday\n Budhwar ko Budhi se kaam lena :-)");

break;

case 4:

printf("thursday\n no non-veg today :-)");

break;

case 5:

printf("friday\n kal se chhutii.. yeah :-)");

break;

case 6:

printf("saturday\n kal bhi chutti hai,kal padh lena :-)");

break;

case 7:

printf("sunday\n assignment bna le kam se kam :-\\ ");

break;

default:printf("invalid number");

}

return 0;

}

**4)**

#include<stdio.h>

int main()

{

int p,q,r;

int n;

while(1)

{

printf("\n\n##########################################\n\n\n");

printf("choose from the following:-\n1.Check whether a given set of three numbers are lengths of an isosceles triangle or not\n");

printf("2.Check whether a given set of three numbers are lengths of sides of a right angled triangle or not\n");

printf("3.Check whether a given set of three numbers are equilateral triangle or not\n4.exit\n");

scanf("%d",&n);

switch(n)

{

case 1:

{

printf("enter three sides of triangle\n");

scanf("%d%d%d",&p,&q,&r);

if(p==q||q==r||r==p)

printf("given sides are of isosceles triangle\n");

else

printf("given sides are not of isosceles triangle\n");

break;

}

case 2:

{

printf("enter three sides of triangle\n");

scanf("%d%d%d",&p,&q,&r);

if(p\*p==r\*r+q\*q||q\*q==r\*r+p\*p||r\*r==p\*p+q\*q)

printf("sides are of right angled triangle\n");

else

printf("sides are not of right angled triangle\n");

break;

}

case 3:

{

printf("enter three sides of triangle\n");

scanf("%d%d%d",&p,&q,&r);

if(p==q&&q==r)

printf("sides are of equilateral triangle\n");

else

printf("sides are not of equilateral triangle\n");

break;

}

case 4:

return;

default:printf("invalid entry");

}

}

return 0;

}

**5)**

#include<stdio.h>

int main()

{

int n;

printf("enter the number \n");

scanf("%d",&n);

switch(n)

{

case 1:

printf("good");

break;

case 2:

printf("better");

break;

case 3:

printf("best");

break;

default:printf("invalid");

}

return 0;

}

**6)**

#include<stdio.h>

int main()

{

int a;

printf("enter the year\n");

scanf("%d",&a);

switch(a%100)

{

case 0:

{

switch(a%400)

{

case 0:

printf("%d is a leap year\n",a);

break;

default:

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

break;

}

break; //if break is not used here then case 0 will be executed again.

}

default :

{

switch(a%4)

{

case 0:

printf("%d is a leap year",a);

break;

default:

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

break;

}

}

}

return 0;

}

**7)**

#include<stdio.h>

int main()

{

float n,s,c;

printf("enter the electricity unit consumed \n");

scanf("%f",&n);

switch(n<=50)

{

case 1:

{

c=0.50\*n;

s=.20\*c;

printf("electricity bill is %f",(c+s));

break;

}

case 0:

{

switch(n<=150)

{

case 1:

{

c=(50\*0.50)+((n-50)\*0.75);

s=.20\*c;

printf("electricity bill is %f",c+s);

break;

}

case 0:

{

switch(n<=250)

{

case 1:

{

c=(50\*0.50)+((100\*0.75))+((n-150)\*1.20);

s=0.20\*c;

printf("electricity bill is %f",c+s);

break;

}

case 0:

{

c=(50\*0.50)+(100\*0.75)+(100\*1.20)+((n-250)\*1.50);

s=.20\*c;

printf("electricity bill is %f",c+s);

break;

}

}

}

}

}

}

return 0;

}

**8)**

#include<stdio.h>

int main()

{

int n;

printf("enter any number\n");

scanf("%d",&n);

switch(n==0)

{

case 1:

printf("%d ",n);

break;

case 0:

printf("%d ",-1\*n);

break;

default:

printf("wrong input");

}

return 0;

}

**9)**

#include<stdio.h>

int main()

{

int n;

printf("enter any number\n");

scanf("%d",&n);

switch (n%2==0)

{

case 1:

printf("upper nearest odd number of %d is %d",n,n+1);

break;

default:

printf("you have intered an odd number %d",n);

}

return 0;

}

**10)**

#include<stdio.h>

#include<math.h>

int main()

{

int a,b,c,d,e,f;

printf("enter coefficient of x^2\n");

scanf("%d",&a);

printf("enter coefficient of x\n");

scanf("%d",&b);

printf("enter the constant\n");

scanf("%d",&c);

d=b\*b-4\*a\*c;

e=sqrt(b\*b-4\*a\*c);

f=sqrt(4\*a\*c-b\*b);

switch(d>0)

{

case 1:

{

printf("roots of this equation is %d and %d",(-b+e)/2\*a,(-b-e)/2\*a);

break;

}

case 0:

{

switch(d<0)

{

case 1:

{

printf("roots of this equation is %d+(%d)i and %d-(%d)i",-b/2\*a,f/2\*a,-b/2\*a,f/2\*a);

break;

}

case 0:

{

printf("roots of this equation is %d and %d",-b/2\*a,-b/2\*a);

break;

}

}

}

}

return 0;

}