**TASK 5:**

#include <iostream>

using namespace std;

int main()

{

int Age;

cout<<"Please Enter your Age "<<endl;

cin>>Age;

if (Age>=20)

{

cout<<"He/She is Eligible to Cast a Vote "<<endl;

}

else

{

cout<<"He/She is Not Eligible to Cast a Vote "<<endl;

}

system("Pause");

return 0;

}

**TASK 4:**

#include <iostream>

using namespace std;

int main (void)

{

int x\_coordinate = 0, y\_coordinate = 0;

cout << "Please enter the x-coordinate: ";

cin >> x\_coordinate;

cout << "Please enter the y-coordinate: ";

cin >> y\_coordinate;

if (x\_coordinate == 0&& y\_coordinate == 0)

{

cout << "(" << x\_coordinate << "," << y\_coordinate << ") is the origin." << "\n";

}

else if(y\_coordinate == 0)

{

cout << "(" << x\_coordinate << "," << y\_coordinate << ") is on the x-axis." << "\n";

}

else if(x\_coordinate == 0)

{

cout << "(" << x\_coordinate << "," << y\_coordinate << ")is on the y axis" <<"\n";

}

else if(x\_coordinate > 0 && y\_coordinate > 0){

cout <<"("<<x\_coordinate <<","<< y\_coordinate <<")is in quadrant I" <<"\n";

}

else if(x\_coordinate < 0 && y\_coordinate > 0){

cout<<"("<<x\_coordinate <<","<< y\_coordinate <<")is in quadrant II" <<"\n";

}

else if(x\_coordinate < 0 && y\_coordinate < 0){

cout<<"("<<x\_coordinate <<","<< y\_coordinate <<")is in quadrant III" <<"\n";

}

else{

cout<<"("<<x\_coordinate <<","<<y\_coordinate <<")is in quadrant IV" <<"\n";

}

system("pause");

return 0;

}

**TASK 1:**

#include <iostream>

#include <string>

using namespace std;

int main()

{

int DB;

string MB;

cout<<"Please Enter your Month of Birth "<<endl;

cin>>MB;

cout<<"Please Enter your Date of Birth "<<endl;

cin>>DB;

cout<<"Input Birthday: "<<DB<<endl;

cout<<"Input Month of Birth: "<<MB<<endl;

if (MB=="JAN" && DB>=20 && DB<=31)

{

cout<<"Your Astrological Sign is Aquarius,Legs "<<endl;

}

else if(MB=="FEB" && DB>=1 && DB<=19)

{

cout<<"Your Astrological Sign is Aquarius,Legs "<<endl;

}

else if (MB=="FEB" && DB>=20 && DB<=28)

{

cout<<"Your Astrological Sign is Pisces,Feet "<<endl;

}

else if (MB=="MAR" && DB>=1 && DB<=20)

{

cout<<"Your Astrological Sign is Pisces,Feet "<<endl;

}

else if (MB=="MAR" && DB>=21 && DB<=31)

{

cout<<"Your Astrological Sign is Aries,Head "<<endl;

}

else if (MB=="APR" && DB>=1 && DB<=20)

{

cout<<"Your Astrological Sign is Aries,Head "<<endl;

}

else if (MB=="APR" && DB>=21 && DB<=30)

{

cout<<"Your Astrological Sign is Taurus,Neck "<<endl;

}

else if (MB=="MAY" && DB>=1 && DB<=20)

{

cout<<"Your Astrological Sign is Taurus,Neck "<<endl;

}

else if (MB=="MAY" && DB>=21 && DB<=31)

{

cout<<"Your Astrological Sign is Gemini,Arms "<<endl;

}

else if (MB=="JUN" && DB>=1 && DB<=20)

{

cout<<"Your Astrological Sign is Gemini,Arms "<<endl;

}

else if (MB=="JUN" && DB>=21 && DB<=30)

{

cout<<"Your Astrological Sign is Cancer,Breast "<<endl;

}

else if (MB=="JUL" && DB>=1 && DB<=22)

{

cout<<"Your Astrological Sign is Cancer,Breast "<<endl;

}

else if (MB=="JUL" && DB>=23 && DB<=31)

{

cout<<"Your Astrological Sign is Leo,Heart "<<endl;

}

else if (MB=="AUG" && DB>=1 && DB<=22)

{

cout<<"Your Astrological Sign is Leo,Heart "<<endl;

}

else if (MB=="AUG" && DB>=23 && DB<=31)

{

cout<<"Your Astrological Sign is Virgo,Belly "<<endl;

}

else if (MB=="SEP" && DB>=1 && DB<=22)

{

cout<<"Your Astrological Sign is Virgo,Belly "<<endl;

}

else if (MB=="SEP" && DB>=23 && DB<=30)

{

cout<<"Your Astrological Sign is Libra,Reins "<<endl;

}

else if (MB=="OCT" && DB>=1 && DB<=22)

{

cout<<"Your Astrological Sign is Libra,Reins "<<endl;

}

else if (MB=="OCT" && DB>=23 && DB<=31)

{

cout<<"Your Astrological Sign is Scorpio,Secrets "<<endl;

}

else if (MB=="NOV" && DB>=1 && DB<=22)

{

cout<<"Your Astrological Sign is Scorpio,Secrets "<<endl;

}

else if (MB=="NOV" && DB>=23 && DB<=30)

{

cout<<"Your Astrological Sign is Sagittarius,Thighs "<<endl;

}

else if (MB=="DEC" && DB>=1 && DB<=21)

{

cout<<"Your Astrological Sign is Sagittarius,Thighs "<<endl;

}

else if (MB=="DEC" && DB>=22 && DB<=31)

{

cout<<"Your Astrological Sign is Capricorn,Knees "<<endl;

}

else if (MB=="JAN" && DB>=1 && DB<=19)

{

cout<<"Your Astrological Sign is Capricorn,Knees "<<endl;

}

system("pause");

return 0;

}

**TASK 3:**

#include <iostream>

#include <string>

using namespace std;

int main()

{

double Roll,PHY,CHE,COM,Sum;

double Per=0;

string Name;

cout<<"Please Enter your Roll No. "<<endl;

cin>>Roll;

cout<<"Please Enter Your Name "<<endl;

cin>>Name;

cout<<"Enter your Physics Marks "<<endl;

cin>>PHY;

cout<<"Enter your Chemistry Marks "<<endl;

cin>>CHE;

cout<<"Enter your Computer Appliance Marks "<<endl;

cin>>COM;

cout<<"Roll No: "<<Roll<<endl;

cout<<"Name of Student: "<<Name<<endl;

cout<<"Marks in Physics: "<<PHY<<endl;

cout<<"Marks in Chemistry "<<CHE<<endl;

cout<<"Marks in Computer Appliance: "<<COM<<endl;

Sum=PHY+CHE+COM;

Per=(Sum/300)\*100;

cout<<"Total Marks: "<<Sum<<endl;

cout<<"Percentage: "<<Per<<endl;

if (Per>=60 && Per<=100)

{

cout<<"Division: First "<<endl;

}

else if (Per<=59 && Per>=50)

{

cout<<"Division: Second "<<endl;

}

else if (Per<=49 && Per>=40)

{

cout<<"Division: Third "<<endl;

}

else

{

cout<<"Fail "<<endl;

}

system("pause");

return 0;

}

**TASK 7:**

#include<iostream>

#include<conio.h>

using namespace std;

void main()

{

bool senior;

bool Session;

bool Months;

int MM;

int TS;

double RM;

double CT;

cout<<" Welcome to the Fitness Centre "<<endl;

cout<<"Senior Citizens will get 30% Off For a Regular Membership Price." << endl;

cout<<"If you buy membership for twelve months then you will get a discount of 15%." << endl;

cout<<"If you buy 6 or more personal training session you will get a discount of 20% in each Session " << endl;

cout<<endl;

cout << "Enter the cost of Regular Membership of per month: " << endl;

cin >> RM;

cout << "Enter the cost of one Traning Session: " << endl;

cin >>CT;

char Senior;

cout << "Are you a Senior Citizen? Please enter 'Y' or 'N': ";

cin>>Senior;

if (Senior == 'y' && Senior == 'Y')

{

senior = true;

}

else

senior = false;

cout<< endl;

cout << "Enter the number of personal training sessions : ";

cin>>TS;

if (TS>= 5)

{

Session = true;

}

else

Session = false;

cout << endl;

cout << "Enter the number of months you are paying for: ";

cin>>MM;

if (MM>= 12)

{

Months = true;

}

else

Months = false;

double finalMembershipCost, finalSessionCost;

if (Session)

{

TS = TS \* 0.8;

}

else

{

TS = TS;

}

if (Months)

{

RM =RM \* 0.85;

}

else

{

RM =RM;

}

finalMembershipCost =RM \* MM;

finalSessionCost = CT \*TS;

if ( senior) {

cout<<"$" <<(finalMembershipCost \* 0.7) + finalSessionCost ;

}

else {

cout<<"$ " <<finalMembershipCost + finalSessionCost;

}

getch();

}

**TASK 6:**

# include <iostream>

#include <string>

using namespace std;

int main()

{

int Num,H,M;

string time;

char Opt='y';

while(Opt=='y')

{

cout<<"Enter 1 to convert 24-hours notation to 12-hour notation "<<endl;

cout<<"Enter 2 to convert 12-hours notation to 24-hour notation "<<endl;

cin>>Num;

cout<<"Enter the Number of hours passed "<<endl;

cin>>H;

cout<<"Enter the Number of minutes passed "<<endl;

cin>>M;

if (Num==1)

{

cout<<"The time in 12-hours-notation is "<<endl;

if(H<12 && H>0)

{

cout<<H<<":"<<M<<"a.m"<<endl;

}

else if (H>12 && H<24)

{

H=H-12;

cout<<H<<":"<<M<<"p.m"<<endl;

}

else if (H==0 || H==24)

{

cout<<"12"<<":"<<M<<"a.m"<<endl;

}

else if (H==12)

{

cout<<"12"<<":"<<M<<"p.m"<<endl;

}

}

else if (Num==2)

{

cout<<"Enter the time of day('am' or 'pm') "<<endl;

cin>>time;

cout<<"The time in 24-hour notation is "<<endl;

if(H>=0 && H<12 && time=="am")

{

cout<<H<<":"<<M<<endl;

}

else if (H>0 && H<12 && time=="pm")

{

H=H+12;

cout<<H<<":"<<M<<endl;

}

else if (H==12 && time=="am")

{

cout<<"00"<<":"<<M<<endl;

}

}

cout<<"Do you want to run program again?(y/n) "<<endl;

cin>>Opt;

}

system("pause");

return 0;

}