

```

#include "coord_decimal.h"
#include "iostream"
coord_decimal::coord_decimal():longitude(0),latitude(0)
{
}

//accesseurs
double coord_decimal::getLatitude()
{
    return latitude;
}

double coord_decimal::getLongitude()
{
    return longitude;
}

//muttateurs
void coord_decimal::setLatitude(double la)
{
    latitude = la;
}

void coord_decimal::setLongitude(double lo)
{
    longitude = lo;
}

void coord_decimal::toDecLo(int a, int b, double c)
{
    double x = (((double) a) + (((double) b)/60) + ((c/3600)));
    std::cout<<" longitude : "<<x<<std::endl;
    setLongitude(x);
}

void coord_decimal::toDecLa(int a, int b, double c)
{
    double y = (((double) a) + (((double) b)/60) + ((c/3600)));
    std::cout<<" latitude : "<<y<<std::endl;
    setLatitude(y);
}

QString coord_decimal::toSexaLa(double la)
{
    int DLA = (double) la;
    double resDLA = (la - ((double) DLA));
    double resMLA = (resDLA * 60);
    int MLA = (double) resMLA;
    double SLA = ( (resMLA-((int) MLA)) * 60 );

    QString str;
    str= (QString::number(DLA)+"°"+ QString::number(MLA)
+"'" +QString::number(SLA)+"'");
    return str;
}

```

```
}
```

```
QString coord_decimal::toSexaLo(double lo)
```

```
{
```

```
    int DL0 = (double) lo;
```

```
    double resDL0 = (lo - ((double) DL0));
```

```
    double resML0 = (resDL0* 60);
```

```
    int ML0 = (double) resML0;
```

```
    double SL0 = ( (resML0-((int) ML0)) * 60 );
```

```
    QString str = (QString::number(DL0))+""+ QString::number(ML0)
```

```
+""+QString::number(SL0)+"";
```

```
    return str;
```

```
}
```