Question 2 solution

```
int tickets;
double price;
cout<<" enter number of tickets"<<endl;
cin>>tickets;
 if (tickets > 7  && tickets<= 14 )
          price = 10.75;
       else
          price = 15;
if ( tickets > 14 )
       cout<<" The price is: " << tickets * price * 0.9<<endl;
else
          cout<<" The price is: " << tickets * price<<endl;
```

Question 3 solution

```
int day, month, year;
cout<<" enter a day"<<endl;
cin>>day;
cout<<" enter month"<<endl;
cin>>month;
cout<<" enter year"<<endl;
cin>>year;
//variable to check validity of the day
int valid =0;
 if (day> 0  && month>0 && month <13 &&day<32  && year>0){
valid =1;
```

```
//other months dont have the 31 st
if((month==4 ||month==2 ||month==6|| month==9|| month==11) && day>30 ){
  valid =0;
}
//date invalid if its not a leap year and february but the date is greater that28
else if((month==2 && day>29 )&& !( year%400==0 || (year%100!=0&& year%4==0))  ){
 valid=0;
}
//also february date cant be greater that2 9
else if (month==2 && day>29 ){
   valid=0;
 }
}
 else{
 valid =0;
}
if (valid ==1){
      cout<<"valid date"<<endl;
   }else{
   cout<<"invalid date"<<endl;
   }
```