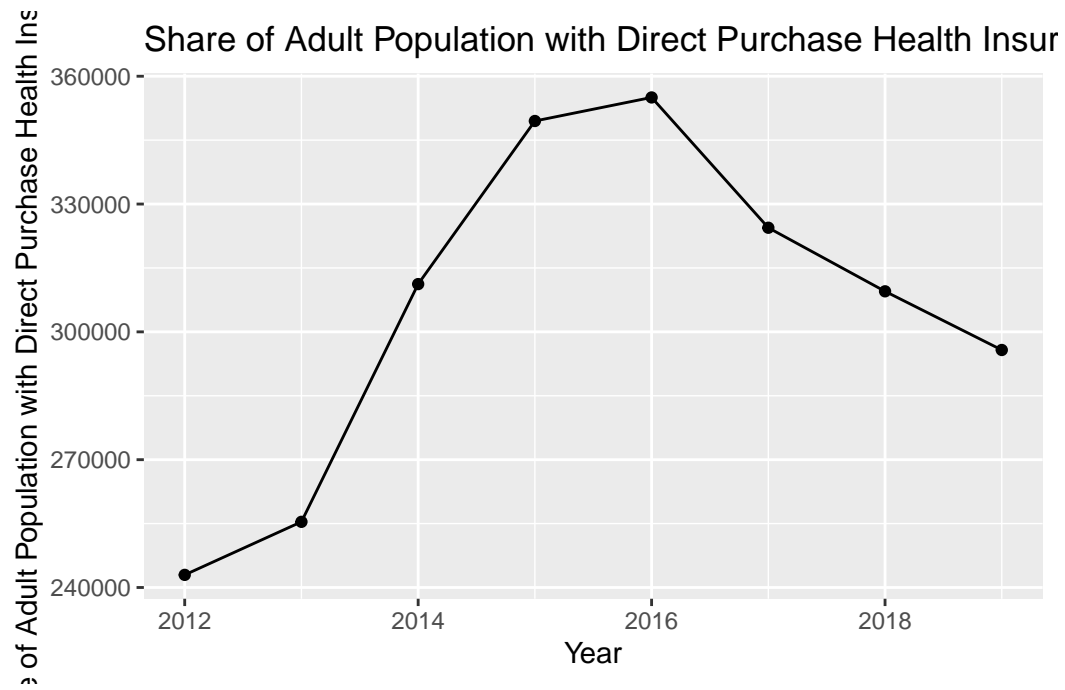


Git Repository: <https://github.com/AlekhyaPidugu/Homework5>

Question 1



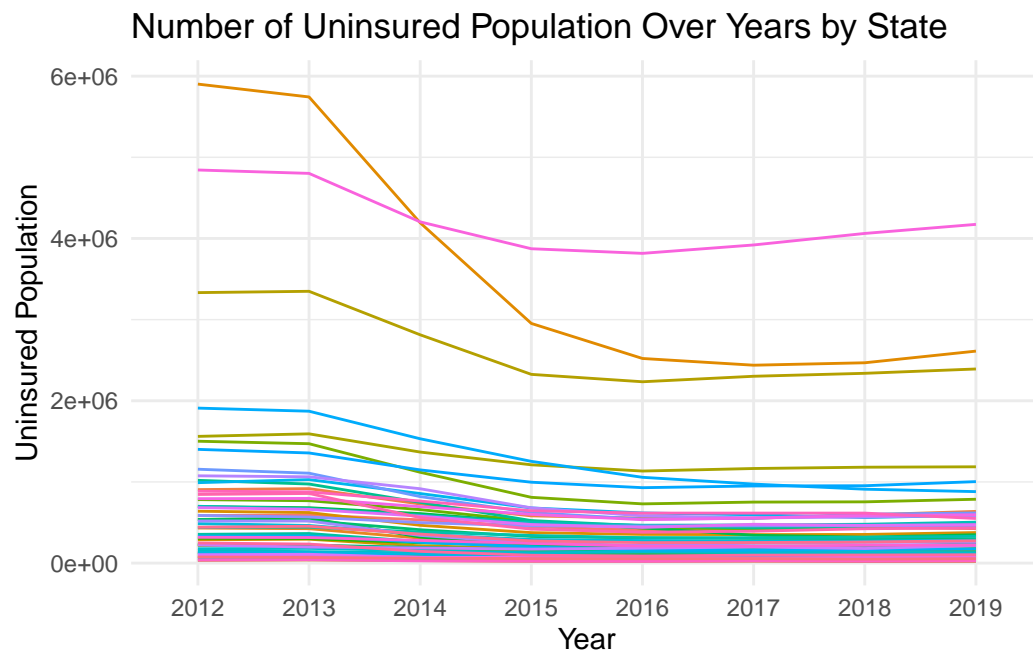
Question 2

The expansion of Medicaid eligibility under the ACA provided coverage to millions of low-income individuals who might have otherwise purchased insurance directly from the market. This could have reduced the pool of potential customers for direct purchase insurance plans.

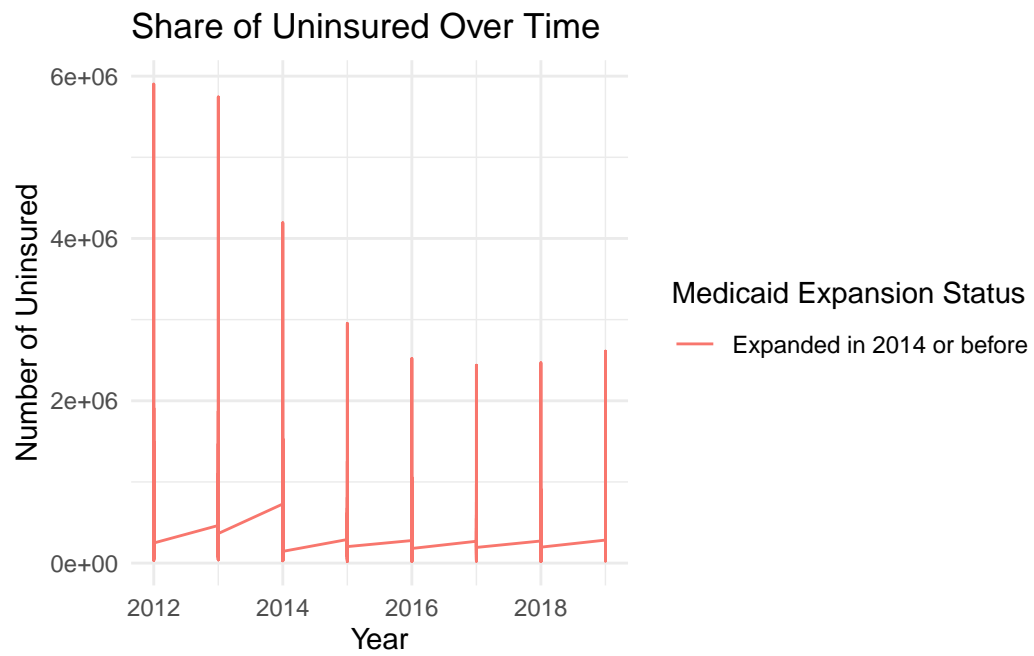
The ACA prohibits insurance companies from denying coverage or charging higher premiums based on pre-existing conditions. This provision made it easier for individuals with pre-existing conditions to obtain coverage through ACA-compliant plans offered in the marketplaces, potentially reducing the demand for direct purchase plans.

State-level regulations regarding insurance market practices, such as rate review requirements, benefit mandates, and network adequacy standards, can influence the availability and affordability of direct purchase insurance plans. Regulatory changes that increase the cost of offering or purchasing direct purchase plans could impact their viability in the market.

Question 3



Question 4



Question 5

```
# A tibble: 3 x 3
# Groups:   expand_ever [3]
  expand_ever `2012` `2015`
  <lgl>      <dbl> <dbl>
1 FALSE      0.216 0.158
2 TRUE       0.175 0.104
3 NA         0.100 0.0824
```

Question 6

Call:

```
lm(formula = uninsured/adult_pop ~ expand_ever + post_treatment +  
    expansion_post, data = filtered_data)
```

Residuals:

	Min	1Q	Median	3Q	Max
	-0.115254	-0.029382	-0.007719	0.028173	0.102290

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.21228	0.01077	19.701	< 2e-16 ***
expand_everTRUE	-0.04505	0.01375	-3.275	0.00136 **
post_treatment	-0.04218	0.01320	-3.197	0.00175 **
expansion_post	-0.01664	0.01685	-0.988	0.32501

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 0.04443 on 128 degrees of freedom

(3 observations deleted due to missingness)

Multiple R-squared: 0.4176, Adjusted R-squared: 0.4039

F-statistic: 30.59 on 3 and 128 DF, p-value: 5.608e-15

Question 7

Warning in chol.default(mat, pivot = TRUE, tol = tol): the matrix is either rank-deficient or not positive definite

uninsured	adult_pop
Min. :-59616	Min. :-59616
1st Qu.:-59616	1st Qu.:-59616
Median :-59616	Median :-59616
Mean :-59616	Mean :-59616
3rd Qu.:-59616	3rd Qu.:-59616
Max. :-59616	Max. :-59616
NA's :2	NA's :2

Question 8

Warning in chol.default(mat, pivot = TRUE, tol = tol): the matrix is either rank-deficient or not positive definite

Warning in chol.default(mat, pivot = TRUE, tol = tol): the matrix is either rank-deficient or not positive definite

Call:

```
felm(formula = uninsured ~ expand + factor(State) + factor(year) | factor(State) + f
```

Residuals:

Min	1Q	Median	3Q	Max
-1052778	-49943	10352	63302	2063351

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)
expandTRUE	-89881	45592	-1.971	0.0494 *
factor(State)Alaska	NaN	NA	NaN	NaN
factor(State)Arizona	NaN	NA	NaN	NaN
factor(State)Arkansas	NaN	NA	NaN	NaN
factor(State)California	NaN	NA	NaN	NaN
factor(State)Colorado	NaN	NA	NaN	NaN
factor(State)Connecticut	NaN	NA	NaN	NaN
factor(State)Delaware	NaN	NA	NaN	NaN
factor(State)District of Columbia	NaN	NA	NaN	NaN
factor(State)Florida	NaN	NA	NaN	NaN
factor(State)Georgia	NaN	NA	NaN	NaN
factor(State)Hawaii	NaN	NA	NaN	NaN
factor(State)Idaho	NaN	NA	NaN	NaN
factor(State)Illinois	NaN	NA	NaN	NaN
factor(State)Indiana	NaN	NA	NaN	NaN
factor(State)Iowa	NaN	NA	NaN	NaN
factor(State)Kansas	NaN	NA	NaN	NaN
factor(State)Kentucky	NaN	NA	NaN	NaN
factor(State)Louisiana	NaN	NA	NaN	NaN
factor(State)Maine	NaN	NA	NaN	NaN
factor(State)Maryland	NaN	NA	NaN	NaN
factor(State)Massachusetts	NaN	NA	NaN	NaN
factor(State)Michigan	NaN	NA	NaN	NaN
factor(State)Minnesota	NaN	NA	NaN	NaN

factor(State)Mississippi	NaN	NA	NaN	NaN
factor(State)Missouri	NaN	NA	NaN	NaN
factor(State)Montana	NaN	NA	NaN	NaN
factor(State)Nebraska	NaN	NA	NaN	NaN
factor(State)Nevada	NaN	NA	NaN	NaN
factor(State)New Hampshire	NaN	NA	NaN	NaN
factor(State)New Jersey	NaN	NA	NaN	NaN
factor(State)New Mexico	NaN	NA	NaN	NaN
factor(State)New York	NaN	NA	NaN	NaN
factor(State)North Carolina	NaN	NA	NaN	NaN
factor(State)North Dakota	NaN	NA	NaN	NaN
factor(State)Ohio	NaN	NA	NaN	NaN
factor(State)Oklahoma	NaN	NA	NaN	NaN
factor(State)Oregon	NaN	NA	NaN	NaN
factor(State)Pennsylvania	NaN	NA	NaN	NaN
factor(State)Puerto Rico	NaN	NA	NaN	NaN
factor(State)Rhode Island	NaN	NA	NaN	NaN
factor(State)South Carolina	NaN	NA	NaN	NaN
factor(State)South Dakota	NaN	NA	NaN	NaN
factor(State)Tennessee	NaN	NA	NaN	NaN
factor(State)Texas	NaN	NA	NaN	NaN
factor(State)Utah	NaN	NA	NaN	NaN
factor(State)Vermont	NaN	NA	NaN	NaN
factor(State)Virginia	NaN	NA	NaN	NaN
factor(State)Washington	NaN	NA	NaN	NaN
factor(State)West Virginia	NaN	NA	NaN	NaN
factor(State)Wisconsin	NaN	NA	NaN	NaN
factor(State)Wyoming	NaN	NA	NaN	NaN
factor(year)2013	NaN	NA	NaN	NaN
factor(year)2014	NaN	NA	NaN	NaN
factor(year)2015	NaN	NA	NaN	NaN
factor(year)2016	NaN	NA	NaN	NaN
factor(year)2017	NaN	NA	NaN	NaN
factor(year)2018	NaN	NA	NaN	NaN
factor(year)2019	NaN	NA	NaN	NaN

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 220100 on 356 degrees of freedom

Multiple R-squared(full model): 0.9409 Adjusted R-squared: 0.9311

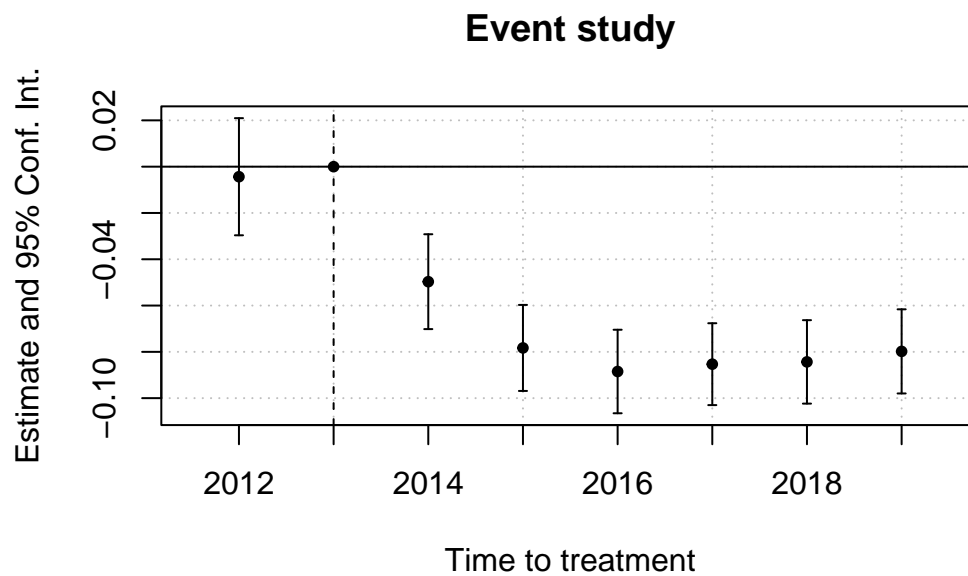
Multiple R-squared(proj model): 0.0108 Adjusted R-squared: -0.1531

F-statistic(full model):96.04 on 59 and 356 DF, p-value: < 2.2e-16

F-statistic(proj model): 0.06587 on 59 and 356 DF, p-value: 1

Question 9

```
Warning: There was 1 warning in `mutate()`.  
i In argument: `post = (year >= 2014)`.  
Caused by warning in `Ops.factor()`:  
! '>=' not meaningful for factors
```



Question 10

Warning: There was 1 warning in `mutate()`.
i In argument: `post = year >= 2014`.
Caused by warning in `Ops.factor()`:
! '>=' not meaningful for factors

