

# Final Project R Code

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## Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
# Install relevant packages
if (!require("pacman")) install.packages("pacman")
```

Loading required package: pacman

```
pacman::p_load(
  marginaleffects, tidyverse, Hmisc, gtsummary,
  janitor, broom, knitr, pROC, labelled, lmtest, haven
)
# Load the dataset
nsch2023data <- readRDS("nsch2023data.rds")
glimpse(nsch2023data)
```

```

$ FORMTYPE <chr> "T2", "T3", "T3", "T3", "T2", "T3", "T3", "T2~  

$ TOTKIDS_R <dbl> 1, 2, 1, 2, 2, 4, 1, 2, 2, 4, 2, 1, 2, 1, 1, 2, 1, ~  

$ TENURE <dbl> 3, 1, 1, 1, 3, 2, 3, 3, 3, 1, 2, 1, 2, 1, 1, 1, ~  

$ HHLANGUAGE <dbl> 1, 1, 2, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~  

$ SC_AGE_YEARS <dbl> 11, 14, 17, 12, 10, 14, 15, 12, 8, 13, 4, 16, 10, 1~  

$ SC_SEX <dbl> 1, 2, 2, 2, 2, 1, 2, 2, 2, 1, 1, 2, 2, 1, 2, ~  

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$ BIRTH_MO <dbl> 8, 2, 3, 8, 7, 12, 1, 10, 7, 1, 10, 8, 2, 11, 5, 7, ~  

$ BIRTH_YR <dbl> 2011, 2009, 2006, 2010, 2012, 2008, 2008, 2010, 201~  

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$ K4Q28X05 <dbl> NA, ~  

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$ SESPLANMO <dbl> NA, ~  

$ K4Q37 <dbl> NA, ~  

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$ LIVEUSA_MO <dbl> NA, ~  

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$ HEART_CURR <dbl> NA, ~
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$ THALASSEMIA <dbl> NA, ~
$ HEMOPHILIA <dbl> NA, ~
$ BLOOD_OTHER <dbl> NA, ~
$ BLOOD_SCREEN <dbl> NA, ~
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$ ENGAGE_BINGE <dbl> 2, 2, 2, 2, 1, 2, 2, 2, NA, 2, NA, 2, 2, 2, 2, 2, 2~
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\$ USUALSICK	<dbl> 1, 1, 1, 1, NA, 1, 1, 1, NA, 1, 1, 1, 1, 1, 1, 1~
\$ VISIONSCREENOTHER	<dbl> 1, 1, 1, 1, 1, 2, 1, 1, 2, 1, 2, 1, 1, 1, 1, 2, ~
\$ VISIONEXAMREC	<dbl> 1, 2, 2, 2, 1, NA, 1, 1, NA, 2, NA, 2, NA, 1, 1, 2, ~
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\$ AVAILABLE	<dbl> NA, ~
\$ APPOINTMENT	<dbl> NA, ~
\$ TRANSPORTCC	<dbl> NA, ~
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$ CERPALS_DESC <dbl> NA, ~
$ DIABETES_DESC <dbl> NA, ~
$ K2Q42C <dbl> NA, ~
$ HEART_DESC <dbl> NA, ~
$ HEADACHE_DESC <dbl> NA, NA, NA, NA, 1, NA, NA, NA, NA, NA, NA, ~
$ K2Q38C <dbl> NA, ~
$ K2Q33C <dbl> NA, ~
$ K2Q32C <dbl> NA, ~
$ BLOOD_DESC <dbl> NA, ~
$ K2Q34C <dbl> NA, ~
$ K2Q36C <dbl> NA, ~
$ K2Q60C <dbl> NA, ~
$ K2Q37C <dbl> NA, ~
$ K2Q30C <dbl> NA, ~
$ K2Q35C <dbl> NA, ~
$ K2Q31C <dbl> NA, ~
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$ BESTFORCHILD <dbl> NA, 1, NA, ~
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\$ ATHOMEHC	<dbl> 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, ~
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\$ K7Q02R_R	<dbl> 2, 2, 4, 2, 5, 1, 2, 3, 1, 1, NA, 2, 2, 3, 3, 2, 2, ~
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\$ PHYSACTIV	<dbl> 3, 2, 2, 2, 3, 3, 2, 2, 2, 2, NA, 4, 2, 2, 2, 2, 3, ~
\$ HOURSLEEP05	<dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, 5, NA, NA, ~
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\$ RECEVALFASD	<dbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, ~
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\$ GAINSKILLS	<dbl> NA, 1, 3, 3, NA, 3, 1, 1, NA, 1, NA, 2, NA, 1, NA, ~
\$ CHANGEAGE	<dbl> NA, 1, 1, 2, NA, 3, 1, 2, NA, 2, NA, 1, NA, 1, NA, ~
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\$ C4Q04	<dbl> 1, 2, 4, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
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\$ K8Q30	<dbl> 2, 1, 2, 1, 1, 2, 1, 1, 1, 1, 2, 2, 2, 1, 1, 2, ~
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\$ K3Q04_R	<dbl> 1, 1, 1, 1, 1, 1, 1, 1, NA, 1, 1, 1, 1, 3, 1, 1, ~
\$ ACE1	<dbl> 3, 2, 1, 1, 1, 1, 3, 4, 1, 2, 1, 1, 1, 2, 1, 1, ~
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\$ SUGARDRINK	<dbl> NA, NA, NA, NA, NA, NA, NA, NA, 1, NA, NA, ~
\$ VEGETABLES	<dbl> NA, NA, NA, NA, NA, NA, NA, NA, 2, NA, NA, ~
\$ FRUIT	<dbl> NA, NA, NA, NA, NA, NA, NA, NA, 6, NA, NA, ~
\$ PLANNEEDS_R	<dbl> NA, NA, NA, NA, NA, 2, 2, NA, NA, NA, NA, NA, N~
\$ RHYMEWORD_R	<dbl> NA, NA, NA, NA, NA, NA, NA, NA, 1, NA, NA, ~
\$ GRADES	<dbl> 3, 1, 3, 2, 2, 2, 1, 2, 2, 2, NA, 3, 1, 1, 6, 2, 2~
\$ HOMEVIC	<dbl> 5, 5, 5, 5, 5, 4, 5, 5, 4, 5, 5, 5, 5, 5, 5, ~
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\$ CBSAfp_YN	<dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
\$ METRO_YN	<dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
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\$ TOTAGE_12_17	<dbl> 0, 1, 1, 1, 1, 2, 1, 2, 1, 3, 0, 1, 0, 1, 0, 2, 1, ~
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$ FPL_IF          <dbl> 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 1, 0, 0, 0, 1, 0, ~
$ A1_GRADE_IF    <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
$ BIRTH_YR_F     <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
$ SC_ASIAN        <dbl> 2, 2, 2, 2, 1, 2, 1, 2, 1, 2, 2, 2, 2, 2, 2, 2, ~
$ SC_AIAN         <dbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, ~
$ SC_NHPI         <dbl> 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, ~
$ WEIGHT          <dbl> NA, 54.43, 57.15, 58.97, 42.18, 56.70, 85.62, 61.23~
$ BMICLASS        <dbl> NA, 3, 2, 3, 2, 2, 4, 4, NA, 3, NA, 4, 3, 2, 4, 3, ~
$ HHCOUNT_IF      <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
$ HIGRADE         <dbl> 3, 3, 2, 3, 2, 3, 3, 2, 2, 3, 3, 3, 3, 3, 2, 3, ~
$ HIGRADE_TVVIS  <dbl> 3, 4, 2, 3, 2, 4, 4, 2, 2, 3, 3, 3, 4, 4, 3, 2, 4, ~
$ FPL_I1          <dbl> 266, 400, 190, 142, 101, 142, 303, 168, 50, 220, 40~
$ FPL_I2          <dbl> 266, 400, 190, 142, 101, 142, 240, 168, 132, 220, 4~
$ FPL_I3          <dbl> 266, 400, 190, 142, 101, 142, 204, 168, 194, 220, 4~
$ FPL_I4          <dbl> 266, 400, 190, 142, 101, 142, 156, 168, 120, 220, 4~
$ FPL_I5          <dbl> 266, 400, 190, 142, 101, 142, 244, 168, 234, 220, 4~
$ FPL_I6          <dbl> 266, 400, 190, 142, 101, 142, 96, 168, 216, 220, 40~
$ FWC             <dbl> 1318.4768, 978.4999, 904.1918, 1092.0973, 586.3879, ~

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