Submission checklist

To Turnitin – Report	To Turnitin – R script
1. Written report including figures	1. Fully commented R script file

The data file is "ons_mcz_teachingv2.dta". You can download this file in the usual way from Moodle. A brief user guide can be found here:
http://doc.ukdataservice.ac.uk/doc/7913/mrdoc/pdf/7913_user_guide_ols_teaching_v2.pdf

The variables in the "ons_mcz_teachingv2.dta" dataset that you might require are:

Variable name	Variable description/label
Casenew	Person ID number
MCZ_1	Overall, how satisfied are you with your life nowadays?
MCZ_2	Overall, to what extent feel things you do in your life are worthwhile?
MCZ_3	Overall, how happy did you feel yesterday?
MCZ_4	Overall, how anxious did you feel yesterday?
MCZ_5	Overall, how satisfied are you with your relationships with family
MCZ_7	Overall, how satisfied are you with your physical health?
MCZ_8	Overall, how satisfied are you with your mental wellbeing?
MCZ_9	Overall, how satisfied are you with the wellbeing of your child/children?
MCZ_10	Overall, how satisfied are you with your financial situation?
MCZ_11	Overall, how satisfied are you with your work situation?
MCZ_13	Overall, how satisfied with amount of time have to do things like doing?
MCZ_17	Overall, how satisfied are you with the area where you live?
QHealthr	How is your health in general?
RSEX	Sex of respondent
AGEXr	Grouped age
Martstat3r	Marital status – 3 categories (recoded)
HighEd4r	What is the highest level of qualification?
Ethnicity2r	Ethnicity White/Other (recoded)
DVILO3ar	DV for International Labour Organisation (ILO) in employment
FtPtWkr	Full-time or part-time work
NSECAC3	National Statistics Socioeconomic Classification 3 categories
GorA	Government Office Region

DOs and DON'Ts
- DON'T include *raw* variable names in the text or tables
- DON'T over do decimal places, but be consistent
- DON'T include unedited R output or you will loose marks

- DO make sure tables and figures have titles and referenced in the text
- DO make sure your tables and figures can be understood without reading the text
- DO make sure you have given a clear enough description of what you have done so that the reader can reproduce any numbers/results that you present
- DO be careful how you use the terms 'significant' and 'correlation' because they have specific meanings in social statistics.

Report brief

You have been commissioned by the Office for National Statistics to write a report on wellbeing using their Opinions and Lifestyle Survey, Well-Being Module, April-May 2015. The data contain self-reported scores (0-10) on different domains of wellbeing as well as other individual characteristics.

You should start your report describing the data and variables you will use in your analysis before going on to answer the research questions below (10 points). Your report should end with a concluding section summarising the implications of your findings using no more than 200 words (10 points).

You should present your results using appropriate tables and plots and ensure all results are interpreted substantively and statistically. You may be required to recode the data to answer certain questions. You should specify an alpha level of 0.05 unless instructed otherwise.

The Office for National Statistics would like you to answer their following research questions:

Economic wellbeing
1. How does satisfaction with financial situation vary within and between regions in the UK? (5 points)
   - Calculate an appropriate measure of central tendency and dispersion for satisfaction with financial situation for each region.

2. Is the proportion unemployed in the South East region aged 25-44 significantly different from the national average? (5 points)
   - Use an appropriate statistical test to test a hypothesis about the proportion unemployed aged 25-44 in the South East, specifying an alpha level of 0.01

Environmental wellbeing
3. Is the mean satisfaction with the local area higher for people aged 75 and over compared with the national average? (5 points)
   - Use an appropriate statistical test to test a hypothesis about the mean for people aged 75 and over, specifying an alpha level of 0.10

Health wellbeing
4. Do ethnic minorities report worse general health than the white majority? (10 points)
   - Report a cross tabulation between reports of general health and ethnic group and determine if there is a statistically significant difference using an appropriate test. Check whether your data meet the assumptions to conduct the test.

5. Are higher socioeconomic class groups more likely to report being satisfied with their mental health compared with lower socioeconomic classes? (15 points)
   - Use an appropriate statistical test to test this hypothesis and demonstrate whether your data meet the assumption to conduct the test.

General wellbeing
6. Which domains of satisfaction explain overall happiness? (30 points)
   - Explore the descriptive relationship separately between five domains of wellbeing measured in your data and overall happiness
   - Choose one domain to explain variation in happiness using a statistical model
   - Check your model for one assumption of your residual values using an appropriate test.
   - Use your model to predict happiness when the score on your domain is 15 and explain whether this is an appropriate prediction to make.
   - Comment on the limitations of your model

10 points are reserved for clear presentation and clarity of answers, especially in regards to production of tabular and graphical outputs.
   - 8-10 clear answers with outputs shown in concise format
   - 5-7 correct answers with outputs that can be understood but cumbersome
   - 0-4 confused answers with unclear outputs.