\* Encoding: UTF-8.

/\*EDA for Capstone (Manzano and Rimando)

/\*Importing excel dataset from kaggle

GET DATA

/TYPE=XLSX

/FILE='C:\Users\wmanzano\Documents\Capstone\Young Adults Survey Data - Capstone.xlsx'

/SHEET=name 'responses'

/CELLRANGE=FULL

/READNAMES=ON

/DATATYPEMIN PERCENTAGE=95.0

/HIDDEN IGNORE=YES.

EXECUTE.

DATASET NAME DataSet1 WINDOW=FRONT.

SAVE OUTFILE='C:\Users\wmanzano\Documents\Capstone\Capstone - Young Adults Data.sav'

/COMPRESSED.

/\*Converting string variables to categorical - numeric

DATASET ACTIVATE DataSet1.

AUTORECODE VARIABLES=Smoking Alcohol Punctuality Lying Gender Leftrighthanded Education Onlychild

Villagetown Houseblockofflats

/INTO smoking\_recode alcohol\_recode punctual\_recode lying\_recode gender\_recode hand\_recode

education\_recode onlychild\_recode villagetown\_recode house\_recode

/BLANK=MISSING

/PRINT.

/\*Adding unique ID

COMPUTE ID=$CASENUM.

EXECUTE.

/\*Running descriptive statistics to check variable range and distribution

DESCRIPTIVES VARIABLES=Music Slowsongsorfastsongs Dance Folk Country Classicalmusic Musical Pop

Rock MetalorHardrock Punk HiphopRap ReggaeSka SwingJazz Rocknroll Alternative Latino TechnoTrance

Opera Movies Horror Thriller Comedy Romantic Scifi War FantasyFairytales Animated Documentary

Western Action History Psychology Politics Mathematics Physics Internet PC EconomyManagement

Biology Chemistry Reading Geography Foreignlanguages Medicine Law Cars Artexhibitions Religion

Countrysideoutdoors Dancing Musicalinstruments Writing Passivesport Activesport Gardening

Celebrities Shopping Scienceandtechnology Theatre Funwithfriends Adrenalinesports Pets Flying Storm

Darkness Heights Spiders Snakes Rats Ageing Dangerousdogs Fearofpublicspeaking Healthyeating

Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement Reliability

Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage Decisionmaking

Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls Finances

Shoppingcentres Brandedclothing Entertainmentspending Spendingonlooks Spendingongadgets

Spendingonhealthyeating Age Height Weight Numberofsiblings smoking\_recode alcohol\_recode

punctual\_recode lying\_recode gender\_recode hand\_recode education\_recode onlychild\_recode

villagetown\_recode house\_recode ID

/STATISTICS=MEAN STDDEV MIN MAX KURTOSIS SKEWNESS.

/\*Generating frequency tables and histogram for all variables to check distribution

FREQUENCIES VARIABLES=Music Slowsongsorfastsongs Dance Folk Country Classicalmusic Musical Pop Rock

MetalorHardrock Punk HiphopRap ReggaeSka SwingJazz Rocknroll Alternative Latino TechnoTrance Opera

Movies Horror Thriller Comedy Romantic Scifi War FantasyFairytales Animated Documentary Western

Action History Psychology Politics Mathematics Physics Internet PC EconomyManagement Biology

Chemistry Reading Geography Foreignlanguages Medicine Law Cars Artexhibitions Religion

Countrysideoutdoors Dancing Musicalinstruments Writing Passivesport Activesport Gardening

Celebrities Shopping Scienceandtechnology Theatre Funwithfriends Adrenalinesports Pets Flying Storm

Darkness Heights Spiders Snakes Rats Ageing Dangerousdogs Fearofpublicspeaking Smoking Alcohol

Healthyeating Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead

Finaljudgement Reliability Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake

Criminaldamage Decisionmaking Elections Selfcriticism Judgmentcalls Hypochondria Empathy

Eatingtosurvive Giving Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health

Changingthepast God Dreams Charity Numberoffriends Punctuality Lying Waiting Newenvironment

Moodswings Appearenceandgestures Socializing Achievements Respondingtoaseriousletter Children

Assertiveness Gettingangry Knowingtherightpeople Publicspeaking Unpopularity Lifestruggles

Happinessinlife Energylevels Smallbigdogs Personality Findinglostvaluables Gettingup

Interestsorhobbies Parentsadvice Questionnairesorpolls Internetusage Finances Shoppingcentres

Brandedclothing Entertainmentspending Spendingonlooks Spendingongadgets Spendingonhealthyeating Age

Height Weight Numberofsiblings Gender Leftrighthanded Education Onlychild Villagetown

Houseblockofflats smoking\_recode alcohol\_recode punctual\_recode lying\_recode gender\_recode

hand\_recode education\_recode onlychild\_recode villagetown\_recode house\_recode ID

/HISTOGRAM NORMAL

/ORDER=ANALYSIS.

/\*Checking high correlation

CORRELATIONS

/VARIABLES=Music Slowsongsorfastsongs Dance Folk Country Classicalmusic Musical Pop Rock

MetalorHardrock Punk HiphopRap ReggaeSka SwingJazz Rocknroll Alternative Latino TechnoTrance Opera

Movies Horror Thriller Comedy Romantic Scifi War FantasyFairytales Animated Documentary Western

Action History Psychology Politics Mathematics Physics Internet PC EconomyManagement Biology

Chemistry Reading Geography Foreignlanguages Medicine Law Cars Artexhibitions Religion

Countrysideoutdoors Dancing Musicalinstruments Writing Passivesport Activesport Gardening

Celebrities Shopping Scienceandtechnology Theatre Funwithfriends Adrenalinesports Pets Flying Storm

Darkness Heights Spiders Snakes Rats Ageing Dangerousdogs Fearofpublicspeaking Healthyeating

Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement Reliability

Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage Decisionmaking

Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls Finances

Shoppingcentres Brandedclothing Entertainmentspending Spendingonlooks Spendingongadgets

Spendingonhealthyeating Age Height Weight Numberofsiblings smoking\_recode alcohol\_recode

punctual\_recode lying\_recode gender\_recode hand\_recode education\_recode onlychild\_recode

villagetown\_recode house\_recode ID

/PRINT=TWOTAIL SIG FULL

/MISSING=PAIRWISE.

/\*Creating target variable (mean spending rating)

COMPUTE MeanSpendRating=MEAN(Shoppingcentres,Brandedclothing,Entertainmentspending,Spendingonlooks,

Spendingongadgets,Spendingonhealthyeating).

EXECUTE.

/\*checking frequency

FREQUENCIES VARIABLES=MeanSpendRating

/HISTOGRAM NORMAL

/ORDER=ANALYSIS.

/\*T-test mean spend rating between gender

T-TEST GROUPS=gender\_recode(1 2)

/MISSING=ANALYSIS

/VARIABLES=MeanSpendRating

/ES DISPLAY(FALSE)

/CRITERIA=CI(.95).

/\* Generating Dummy Variables for Regression

SPSSINC CREATE DUMMIES VARIABLE=smoking\_recode alcohol\_recode punctual\_recode lying\_recode

gender\_recode hand\_recode education\_recode onlychild\_recode villagetown\_recode house\_recode

ROOTNAME1=smoking alcohol punctual lying gender hand educ onlychild town house

/OPTIONS ORDER=A USEVALUELABELS=YES USEML=NO OMITFIRST=YES.

/\*Generating initial model (all variables excluding individual spend variables, phobias, and left hand/ right hand, shopping)

REGRESSION

/MISSING MEANSUBSTITUTION

/STATISTICS COEFF OUTS R ANOVA COLLIN TOL

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT MeanSpendRating

/METHOD=STEPWISE Music Slowsongsorfastsongs Dance Folk Country Classicalmusic Musical Pop Rock

MetalorHardrock Punk HiphopRap ReggaeSka SwingJazz Rocknroll Alternative Latino TechnoTrance Opera

Movies Horror Thriller Comedy Romantic Scifi War FantasyFairytales Animated Documentary Western

Action History Psychology Politics Mathematics Physics Internet PC EconomyManagement Biology

Chemistry Reading Geography Foreignlanguages Medicine Law Cars Artexhibitions Religion

Countrysideoutdoors Dancing Musicalinstruments Writing Passivesport Activesport Gardening

Celebrities Scienceandtechnology Theatre Funwithfriends Adrenalinesports Pets Healthyeating

Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement Reliability

Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage Decisionmaking

Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls Finances Age

Height Weight Numberofsiblings smoking\_1 smoking\_2 smoking\_3 alcohol\_6 alcohol\_7 punctual\_10

punctual\_11 lying\_14 lying\_15 lying\_16 gender\_19 hand\_22 educ\_25 educ\_26 educ\_27 educ\_28 educ\_29

town\_35 house\_38.

/\*Generating initial factor analysis

/\*VARIMAX ROTATION

FACTOR

/VARIABLES Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement

Reliability Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage

Decisionmaking Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls

/MISSING MEANSUB

/ANALYSIS Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement

Reliability Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage

Decisionmaking Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls

/PRINT INITIAL KMO EXTRACTION ROTATION

/FORMAT BLANK(.2)

/PLOT EIGEN

/CRITERIA MINEIGEN(1) ITERATE(25)

/EXTRACTION PAF

/CRITERIA ITERATE(25)

/ROTATION VARIMAX

/METHOD=CORRELATION.

/\*EQUAMAX

FACTOR

/VARIABLES Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement

Reliability Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage

Decisionmaking Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls

/MISSING MEANSUB

/ANALYSIS Dailyevents Prioritisingworkload Writingnotes Workaholism Thinkingahead Finaljudgement

Reliability Keepingpromises Lossofinterest Friendsversusmoney Funniness Fake Criminaldamage

Decisionmaking Elections Selfcriticism Judgmentcalls Hypochondria Empathy Eatingtosurvive Giving

Compassiontoanimals Borrowedstuff Loneliness Cheatinginschool Health Changingthepast God Dreams

Charity Numberoffriends Waiting Newenvironment Moodswings Appearenceandgestures Socializing

Achievements Respondingtoaseriousletter Children Assertiveness Gettingangry Knowingtherightpeople

Publicspeaking Unpopularity Lifestruggles Happinessinlife Energylevels Smallbigdogs Personality

Findinglostvaluables Gettingup Interestsorhobbies Parentsadvice Questionnairesorpolls

/PRINT INITIAL KMO EXTRACTION ROTATION

/FORMAT BLANK(.2)

/PLOT EIGEN

/CRITERIA MINEIGEN(1) ITERATE(25)

/EXTRACTION PAF

/CRITERIA ITERATE(25)

/ROTATION EQUAMAX

/METHOD=CORRELATION.

/\*Creating binary spend variable (spender = 4, 5 mean spend; non-spender = 1, 2 or 3)

RECODE MeanSpendRating (4 thru 5=1) (ELSE=0) INTO Spend\_Binary.

VARIABLE LABELS Spend\_Binary ‘Spend\_Binary’.

EXECUTE.