#extracting FIES 2009

cspro.factor.type = 1

cspro.factor.create.new.variable = FALSE

# CSPro Export Factor Options:

# cspro.factor.type (0): do not use factors

# cspro.factor.type (1): factor only discrete numeric variables

# cspro.factor.type (2): factor both discrete numeric and alpha variables

# cspro.factor.create.new.variable: TRUE to add the factored variables as separate variables

f2k9vars <- read.fortran("D:/Users/Erwin/OneDrive - University of the Philippines/CSWCD/SD/SD 400/Dataset/FIES/FIES2009/Data/f2k9vars.dat",c("I2","A18","I1","A2","I2","F4","F11","I1","I2","I1","I2","I1","I4","I4","I1","I1","I2","I2","I2","I1","I1","I1","I1","I1","I1","I9","I9","I9","I1","I1","I1","I5","I2","I2","I2","I2","I2","I2","I2","I2","I2","I2","I2","I2","I9","I7","I6","I7","I7","I7","I7","I7","I7","I9","I9","I9","I9","I2","I2","I2","I2"))

names(f2k9vars) <- c("w\_regn","w\_id","w\_urb2","w\_line\_no","w\_no\_hh","fsize","rfact","z2011\_h\_sex","z2021\_h\_age","z2031\_h\_ms","z2041\_h\_educ","z2051\_h\_has\_job","z2061\_h\_occup","z2071\_h\_kb","z2081\_h\_cw","z2091\_hhld\_type","z2101\_tot\_mem","z2161\_m\_tot\_nrel","z2171\_m\_tot\_emp","z2181\_wife\_emp","b4011\_bldg\_type","b4021\_roof","b4031\_walls","b4041\_tenure","b4042\_tenure\_ind","b4043\_house\_rent","b4053\_lot\_rent","b5012\_oth\_house","b5021\_toilet","b5031\_electric","b5041\_water","b5042\_distance","b5052\_n\_radio","b5062\_n\_tv","b5092\_n\_ref","b5102\_n\_wash","b5112\_n\_aircon","b5122\_n\_salaset","b5132\_n\_dining","b5142\_n\_car","b5152\_n\_phone","b5162\_n\_pc","b5172\_n\_oven","b5182\_n\_motor","totex","fhome","albev","nfood","tbcco","trcom","educ","medic","acrnt","toinc","pnsns","dvdnd","eainc","natdc","regdc","natpc","regpc")

if( cspro.factor.type != 0 ) {

if( cspro.factor.create.new.variable ) {

f2k9vars$w\_regn.f <- factor(f2k9vars$w\_regn,levels = c(13,14,1,2,3,41,42,5,6,7,8,9,10,11,12,16,15),labels = c("NCR","CAR","I - Ilocos Region","II - Cagayan Valley","III - Central Luzon","IVA - CALABARZON","IVB - MIMAROPA","V - Bicol Region","VI - Western Visayas","VII - Central Visayas","VIII - Eastern Visayas","IX - Zamboanga Peninsula","X - Northern Mindanao","XI - Davao","XII - SOCCSKSARGEN","XIII - Caraga","ARMM"))

} else {

f2k9vars$w\_regn <- factor(f2k9vars$w\_regn,levels = c(13,14,1,2,3,41,42,5,6,7,8,9,10,11,12,16,15),labels = c("NCR","CAR","I - Ilocos Region","II - Cagayan Valley","III - Central Luzon","IVA - CALABARZON","IVB - MIMAROPA","V - Bicol Region","VI - Western Visayas","VII - Central Visayas","VIII - Eastern Visayas","IX - Zamboanga Peninsula","X - Northern Mindanao","XI - Davao","XII - SOCCSKSARGEN","XIII - Caraga","ARMM"))

}

if( cspro.factor.type == 2 ) {

if( cspro.factor.create.new.variable ) {

f2k9vars$w\_id.f <- factor(f2k9vars$w\_id,levels = c("39 ","74 ","75 ","76 ","01 ","11 ","27 ","32 ","44 ","81 ","28 ","29 ","33 ","55 ","09 ","15 ","31 ","50 ","57 ","08 ","14 ","49 ","54 ","69 ","71 ","77 ","10 ","21 ","34 ","56 ","58 ","40 ","51 ","52 ","53 ","59 ","05 ","16 ","17 ","20 ","41 ","62 ","04 ","06 ","19 ","30 ","45 ","79 ","12 ","22 ","46 ","61 ","26 ","37 ","48 ","60 ","64 ","78 ","72 ","73 ","83 ","97 ","13 ","18 ","35 ","42 ","43 ","23 ","24 ","25 ","82 ","47 ","63 ","65 ","80 ","98 ","07 ","36 ","38 ","66 ","70 ","02 ","03 ","67 ","68 "),labels = c("Manila","NCR-2nd Dist.","NCR-3rd Dist.","NCR-4th Dist.","Abra","Benguet","Ifugao","Kalinga","Mountain Province","Apayao","Ilocos Norte","Ilocos Sur","La Union","Pangasinan","Batanes","Cagayan","Isabela","Nueva Vizcaya","Quirino","Bataan","Bulacan","Nueva Ecija","Pampanga","Tarlac","Zambales","Aurora","Batangas","Cavite","Laguna","Quezon","Rizal","Marinduque","Occidental Mindoro","Oriental Mindoro","Palawan","Romblon","Albay","Camarines Norte","Camarines Sur","Catanduanes","Masbate","Sorsogon","Aklan","Antique","Capiz","Iloilo","Negros Occidental","Guimaras","Bohol","Cebu","Negros Oriental","Siquijor","Eastern Samar","Leyte","Northern Samar","Samar (Western)","Southern Leyte","Biliran","Zamboanga del Norte","Zamboanga del Sur","Zamboanga Sibugay","Isabela City","Bukidnon","Camiguin","Lanao del Norte","Misamis Occidental","Misamis Oriental","Davao","Davao de Sur","Davao Oriental","Compostela Valley","Cotabato","South Cotabato","Sultan Kudarat","Sarangani","Cotabato City","Basilan","Lanao del Sur","Maguindanao","Sulu","Tawi-tawi","Agusan del Norte ((((((","Agusan del Sur","Surigao del Norte","Surigao del Sur"))

} else {

f2k9vars$w\_id <- factor(f2k9vars$w\_id,levels = c("39 ","74 ","75 ","76 ","01 ","11 ","27 ","32 ","44 ","81 ","28 ","29 ","33 ","55 ","09 ","15 ","31 ","50 ","57 ","08 ","14 ","49 ","54 ","69 ","71 ","77 ","10 ","21 ","34 ","56 ","58 ","40 ","51 ","52 ","53 ","59 ","05 ","16 ","17 ","20 ","41 ","62 ","04 ","06 ","19 ","30 ","45 ","79 ","12 ","22 ","46 ","61 ","26 ","37 ","48 ","60 ","64 ","78 ","72 ","73 ","83 ","97 ","13 ","18 ","35 ","42 ","43 ","23 ","24 ","25 ","82 ","47 ","63 ","65 ","80 ","98 ","07 ","36 ","38 ","66 ","70 ","02 ","03 ","67 ","68 "),labels = c("Manila","NCR-2nd Dist.","NCR-3rd Dist.","NCR-4th Dist.","Abra","Benguet","Ifugao","Kalinga","Mountain Province","Apayao","Ilocos Norte","Ilocos Sur","La Union","Pangasinan","Batanes","Cagayan","Isabela","Nueva Vizcaya","Quirino","Bataan","Bulacan","Nueva Ecija","Pampanga","Tarlac","Zambales","Aurora","Batangas","Cavite","Laguna","Quezon","Rizal","Marinduque","Occidental Mindoro","Oriental Mindoro","Palawan","Romblon","Albay","Camarines Norte","Camarines Sur","Catanduanes","Masbate","Sorsogon","Aklan","Antique","Capiz","Iloilo","Negros Occidental","Guimaras","Bohol","Cebu","Negros Oriental","Siquijor","Eastern Samar","Leyte","Northern Samar","Samar (Western)","Southern Leyte","Biliran","Zamboanga del Norte","Zamboanga del Sur","Zamboanga Sibugay","Isabela City","Bukidnon","Camiguin","Lanao del Norte","Misamis Occidental","Misamis Oriental","Davao","Davao de Sur","Davao Oriental","Compostela Valley","Cotabato","South Cotabato","Sultan Kudarat","Sarangani","Cotabato City","Basilan","Lanao del Sur","Maguindanao","Sulu","Tawi-tawi","Agusan del Norte ((((((","Agusan del Sur","Surigao del Norte","Surigao del Sur"))

}

}

if( cspro.factor.create.new.variable ) {

f2k9vars$w\_urb2.f <- factor(f2k9vars$w\_urb2,levels = c(1,2),labels = c("Urban","Rural"))

} else {

f2k9vars$w\_urb2 <- factor(f2k9vars$w\_urb2,levels = c(1,2),labels = c("Urban","Rural"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2011\_h\_sex.f <- factor(f2k9vars$z2011\_h\_sex,levels = c(1,2),labels = c("Male","Female"))

} else {

f2k9vars$z2011\_h\_sex <- factor(f2k9vars$z2011\_h\_sex,levels = c(1,2),labels = c("Male","Female"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2031\_h\_ms.f <- factor(f2k9vars$z2031\_h\_ms,levels = c(1,2,3,4,5),labels = c("Single","Married","Widowed","Divorced/Separated","Unknown"))

} else {

f2k9vars$z2031\_h\_ms <- factor(f2k9vars$z2031\_h\_ms,levels = c(1,2,3,4,5),labels = c("Single","Married","Widowed","Divorced/Separated","Unknown"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2041\_h\_educ.f <- factor(f2k9vars$z2041\_h\_educ,levels = c(0,1,2,3,4,5,60,61,62,63,64,65,66,67,68,70,71,72,73,74,75,76,78),labels = c("No Grade Completed","Elementary Undergraduate","Elementary Graduate","High School Undergraduate","High School Graduate","College Undergraduate","Bachelor of Arts/Science in General Programs","B.A./B.S. in Programs in Eduaction Science and Teacher Training/Fine and Applied Program","B.A./B.S. in Humanities Programs/Religion and Theology Programs","B.A./B.S. in Social and Behavioral Science Prog/Bus. Ad & Related Programs/Law and Jurisprudence Prog","B.S. in Natural Science Programs/Mathematics and Computer Science Prog","B.S. in Med. Incl. Doc. of Med., Dental Med., Opto./Trade, Craft & Ind. Prog./Eng. Prog./Arch. & Town Plan. Prog.","B.S. in Agric'l, Forestry, and Fisheries Prog. Including Doc. of Vet. Med./Home Economic Programs","B.S. in Service Trades Programs","B.A. in Mass Comm. & Doc./Other Prog. of Educ. at 3rd Level, 1st Stage Leads 1st Univ. Deg.","Post Grad, M.A/M.S./PhD in General Programs","Post Grad, Prof. Dip./Cert./Masteral/PhD. in Educ. Sci. & Teacher Training/Fine & Applied Arts Prog.","Post Grad, Diploma/Masteral/Doctorate in Humanities Prog./Religion and Theology Programs","Post Grad, Prof. Dip./Cert./Masteral./Doct. in Social & Behavioral Sci. /Bus. Ad. & Rel. Prog./Law & Juris. Prog","Post Grad, Cert./Dip./M.S./PhD. in Natural Science/Math & Computer Science Programs","Post Grad, Dip./M.S./PhD. in Med. & Allied Prog./Eng'g Prog./Architectural & Town Planning Prog.","Post Grad, Dip./M.S./PhD. IN Agricl, Forestry, & Fish. Prog./Home Eco.(Domestic Sci.) Programs","Post Grad, Dip./M.A./PhD. in Mass Comm. & Doc./Educ Prog at 3rd Level, 2nd Stage Leading to Post Graduate"))

} else {

f2k9vars$z2041\_h\_educ <- factor(f2k9vars$z2041\_h\_educ,levels = c(0,1,2,3,4,5,60,61,62,63,64,65,66,67,68,70,71,72,73,74,75,76,78),labels = c("No Grade Completed","Elementary Undergraduate","Elementary Graduate","High School Undergraduate","High School Graduate","College Undergraduate","Bachelor of Arts/Science in General Programs","B.A./B.S. in Programs in Eduaction Science and Teacher Training/Fine and Applied Program","B.A./B.S. in Humanities Programs/Religion and Theology Programs","B.A./B.S. in Social and Behavioral Science Prog/Bus. Ad & Related Programs/Law and Jurisprudence Prog","B.S. in Natural Science Programs/Mathematics and Computer Science Prog","B.S. in Med. Incl. Doc. of Med., Dental Med., Opto./Trade, Craft & Ind. Prog./Eng. Prog./Arch. & Town Plan. Prog.","B.S. in Agric'l, Forestry, and Fisheries Prog. Including Doc. of Vet. Med./Home Economic Programs","B.S. in Service Trades Programs","B.A. in Mass Comm. & Doc./Other Prog. of Educ. at 3rd Level, 1st Stage Leads 1st Univ. Deg.","Post Grad, M.A/M.S./PhD in General Programs","Post Grad, Prof. Dip./Cert./Masteral/PhD. in Educ. Sci. & Teacher Training/Fine & Applied Arts Prog.","Post Grad, Diploma/Masteral/Doctorate in Humanities Prog./Religion and Theology Programs","Post Grad, Prof. Dip./Cert./Masteral./Doct. in Social & Behavioral Sci. /Bus. Ad. & Rel. Prog./Law & Juris. Prog","Post Grad, Cert./Dip./M.S./PhD. in Natural Science/Math & Computer Science Programs","Post Grad, Dip./M.S./PhD. in Med. & Allied Prog./Eng'g Prog./Architectural & Town Planning Prog.","Post Grad, Dip./M.S./PhD. IN Agricl, Forestry, & Fish. Prog./Home Eco.(Domestic Sci.) Programs","Post Grad, Dip./M.A./PhD. in Mass Comm. & Doc./Educ Prog at 3rd Level, 2nd Stage Leading to Post Graduate"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2051\_h\_has\_job.f <- factor(f2k9vars$z2051\_h\_has\_job,levels = c(1,2),labels = c("With Job/Business","No Job/Business"))

} else {

f2k9vars$z2051\_h\_has\_job <- factor(f2k9vars$z2051\_h\_has\_job,levels = c(1,2),labels = c("With Job/Business","No Job/Business"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2081\_h\_cw.f <- factor(f2k9vars$z2081\_h\_cw,levels = c(0,1,2,3,4,5,6),labels = c("Worked for private household","Worked for private establishment","Worked for government/government corporation","Self-employed wihout any employee","Employer in own family-operated farm or business","Worked with pay in own family-operated farm or business","Worked without pay in own family-operated farm or business"))

} else {

f2k9vars$z2081\_h\_cw <- factor(f2k9vars$z2081\_h\_cw,levels = c(0,1,2,3,4,5,6),labels = c("Worked for private household","Worked for private establishment","Worked for government/government corporation","Self-employed wihout any employee","Employer in own family-operated farm or business","Worked with pay in own family-operated farm or business","Worked without pay in own family-operated farm or business"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2091\_hhld\_type.f <- factor(f2k9vars$z2091\_hhld\_type,levels = c(1,2,3),labels = c("Single Family","Extended Family","Two or more nonrelated persons members"))

} else {

f2k9vars$z2091\_hhld\_type <- factor(f2k9vars$z2091\_hhld\_type,levels = c(1,2,3),labels = c("Single Family","Extended Family","Two or more nonrelated persons members"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$z2181\_wife\_emp.f <- factor(f2k9vars$z2181\_wife\_emp,levels = c(1,2),labels = c("Employed","Not employed"))

} else {

f2k9vars$z2181\_wife\_emp <- factor(f2k9vars$z2181\_wife\_emp,levels = c(1,2),labels = c("Employed","Not employed"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b4011\_bldg\_type.f <- factor(f2k9vars$b4011\_bldg\_type,levels = c(1,2,3,4,5),labels = c("Single house","Duplex","Apartment/accessoria/condo/townhouse","Commercial/industrial/agricultural building/house","other building unit (e.g. cave, boat)"))

} else {

f2k9vars$b4011\_bldg\_type <- factor(f2k9vars$b4011\_bldg\_type,levels = c(1,2,3,4,5),labels = c("Single house","Duplex","Apartment/accessoria/condo/townhouse","Commercial/industrial/agricultural building/house","other building unit (e.g. cave, boat)"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b4021\_roof.f <- factor(f2k9vars$b4021\_roof,levels = c(1,2,3,4,5,6),labels = c("Strong material(galvanized,iron,al,tile,concrete,brick,stone,asbestos)","Light material (cogon,nipa,anahaw)","Salvaged/makeshift materials","Mixed but predominantly strong materials","Mixed but predominantly light materials","Mixed but predominantly salvaged materials"))

} else {

f2k9vars$b4021\_roof <- factor(f2k9vars$b4021\_roof,levels = c(1,2,3,4,5,6),labels = c("Strong material(galvanized,iron,al,tile,concrete,brick,stone,asbestos)","Light material (cogon,nipa,anahaw)","Salvaged/makeshift materials","Mixed but predominantly strong materials","Mixed but predominantly light materials","Mixed but predominantly salvaged materials"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b4031\_walls.f <- factor(f2k9vars$b4031\_walls,levels = c(1,2,3,4,5,6),labels = c("Strong material(galvanized,iron,al,tile,concrete,brick,stone,asbestos)","Light material (cogon,nipa,anahaw)","Salvaged/makeshift materials","Mixed but predominantly strong materials","Mixed but predominantly light materials","Mixed but predominantly salvaged materials"))

} else {

f2k9vars$b4031\_walls <- factor(f2k9vars$b4031\_walls,levels = c(1,2,3,4,5,6),labels = c("Strong material(galvanized,iron,al,tile,concrete,brick,stone,asbestos)","Light material (cogon,nipa,anahaw)","Salvaged/makeshift materials","Mixed but predominantly strong materials","Mixed but predominantly light materials","Mixed but predominantly salvaged materials"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b4041\_tenure.f <- factor(f2k9vars$b4041\_tenure,levels = c(1,2,3,4,5,6,7),labels = c("Own or owner-like possession of house and lot","Rent house/room including lot","Own house, rent lot","Own house, rent-free lot with consent of owner","Own house, rent-free lot without consent of owner","Rent-free house and lot with consent of owner","Rent-free house and lot without consent of owner"))

} else {

f2k9vars$b4041\_tenure <- factor(f2k9vars$b4041\_tenure,levels = c(1,2,3,4,5,6,7),labels = c("Own or owner-like possession of house and lot","Rent house/room including lot","Own house, rent lot","Own house, rent-free lot with consent of owner","Own house, rent-free lot without consent of owner","Rent-free house and lot with consent of owner","Rent-free house and lot without consent of owner"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b5021\_toilet.f <- factor(f2k9vars$b5021\_toilet,levels = c(1,2,3,4,5),labels = c("Water-sealed","Closed pit","Open pit","Others (pail system, etc)","None"))

} else {

f2k9vars$b5021\_toilet <- factor(f2k9vars$b5021\_toilet,levels = c(1,2,3,4,5),labels = c("Water-sealed","Closed pit","Open pit","Others (pail system, etc)","None"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b5031\_electric.f <- factor(f2k9vars$b5031\_electric,levels = c(1,2),labels = c("With Electricity","With out Electricity"))

} else {

f2k9vars$b5031\_electric <- factor(f2k9vars$b5031\_electric,levels = c(1,2),labels = c("With Electricity","With out Electricity"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$b5041\_water.f <- factor(f2k9vars$b5041\_water,levels = c(1,2,3,4,5,6,7,8),labels = c("Own use, faucet, community water system","Shared, faucet, community water system","Own use, tubed/piped well","Shared, tubed/piped well","Dug well","Spring, river, stream, etc","Rain","Peddler"))

} else {

f2k9vars$b5041\_water <- factor(f2k9vars$b5041\_water,levels = c(1,2,3,4,5,6,7,8),labels = c("Own use, faucet, community water system","Shared, faucet, community water system","Own use, tubed/piped well","Shared, tubed/piped well","Dug well","Spring, river, stream, etc","Rain","Peddler"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$natdc.f <- factor(f2k9vars$natdc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

} else {

f2k9vars$natdc <- factor(f2k9vars$natdc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$regdc.f <- factor(f2k9vars$regdc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

} else {

f2k9vars$regdc <- factor(f2k9vars$regdc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$natpc.f <- factor(f2k9vars$natpc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

} else {

f2k9vars$natpc <- factor(f2k9vars$natpc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

}

if( cspro.factor.create.new.variable ) {

f2k9vars$regpc.f <- factor(f2k9vars$regpc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

} else {

f2k9vars$regpc <- factor(f2k9vars$regpc,levels = c(1,2,3,4,5,6,7,8,9,10),labels = c("First Decile","Second Decile","Third Decile","Fourth Decile","Fifth Decile","Sixth Decile","Seventh Decile","Eight Decile","Ninth Decile","Tenth Decile"))

}

}

rm(cspro.factor.type)

rm(cspro.factor.create.new.variable)