```
FREQ hv015.
SELECT IF hv015 = 1.

FREQ hv201 hv205 hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv213
hv214 hv215 hv216 hv221 hv225 hv226 hv238 hv239 hv240 hv241 hv242
hv243a hv243b hv243c hv243d hv244 hv245 hv246 hv246a hv246b
hv246c
hv246d hv246e hv246f hv246g hv246h hv246i hv246j hv246k hv247.


FREQ hv201 hv205 hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv213
hv214 hv215 hv216 hv221 hv225 hv226 hv241
hv243a hv243b hv243c hv243d hv244 hv245 hv246b hv246g hv246h.




* WATER.

COMPUTE h2opipe = 0.
IF (hv201 = 11) h2opipe = 1.
VAR LABELS h2opipe "if gets water piped into home".
VAL LABELS h2opipe    0 "no water piped into home"
                1 "water is piped into home".

COMPUTE h2oyard = 0.
IF (hv201 = 12) h2oyard = 1.
VAR LABELS h2oyard "if gets water piped into yard".
VAL LABELS h2oyard    0 "no water piped into yard"
                1 "water is piped into yard".

COMPUTE h2opub = 0.
IF (hv201 = 13) h2opub = 1.
VAR LABELS h2opub "if gets water from piped public source".
VAL LABELS h2opub     0 "no water from piped public source"
                1 "water is from piped public source".

COMPUTE h2otube = 0.
IF (hv201 = 21 | hv201 = 51 | hv201 = 62 | hv201 = 71 | hv201 =
96) h2otube = 1.
VAR LABELS h2otube "if gets water from tube well/borehole + 14
other".
VAL LABELS h2otube    0 "no water from tube well/borehole"
                1 "water is from tube well/borehole".

COMPUTE h2ppvwel = 0.
IF (hv201 = 31) h2ppvwel = 1.
VAR LABELS h2ppvwel "if gets water from a protected well".
VAL LABELS h2ppvwel   0 "no water from a protected well"
                1 "water is from a protected well".
```

```
COMPUTE h2pydwel = 0.
IF (hv201 = 32) h2pydwel = 1.
VAR LABELS h2pydwel "if gets water from an unprotected well".
VAL LABELS h2pydwel   0 "no water from an unprotected well"
                1 "water is from an unprotected well".

COMPUTE h2spring = 0.
IF (hv201 = 41 | hv201 = 42) h2spring = 1.
VAR LABELS h2spring "if gets water from a spring".
VAL LABELS h2spring   0 "no water from a spring"
                1 "water is from a spring".

COMPUTE h2osurf = 0.
IF (hv201 = 43) h2osurf = 1.
VAR LABELS h2osurf "if gets water from a surface source".
VAL LABELS h2osurf    0 "no water from a surface source"
                1 "water is from a surface source".



*TOILET.

CROSSTAB hv205 by hv225.

COMPUTE flswpvt = 0.
IF (hv205 = 11 & hv225 = 0) flswpvt = 1.
VAR LABELS flswpvt "if uses pvt flush to sewer toilet".
VAL LABELS flswpvt    0 "does not use pvt flush to sewer toilet"
                1 "uses pvt flush to sewer toilet".

COMPUTE flswshr = 0.
IF (hv205 = 11 & hv225 = 1) flswshr = 1.
VAR LABELS flswshr "if uses shared flush to sewer toilet".
VAL LABELS flswshr    0 "does not use shared flush to sewer
toilet"
                1 "uses shared flush to sewer toilet".

COMPUTE flstpvt = 0.
IF (hv205 = 12 & hv225 = 0) flstpvt = 1.
VAR LABELS flstpvt "if uses pvt flush to septic toilet".
VAL LABELS flstpvt    0 "does not use pvt flush to septic toilet"
                1 "uses pvt flush to septic toilet".

COMPUTE flstshr = 0.
IF (hv205 = 12 & hv225 = 1) flstshr = 1.
VAR LABELS flstshr "if uses shared flush to septic toilet".
VAL LABELS flstshr    0 "does not use shared flush to septic
toilet"
                1 "uses shared flush to septic toilet".

COMPUTE fldkpvt = 0.
IF ((hv205 = 13) & hv225 = 0) fldkpvt = 1.
```

```
VAR LABELS fldkpvt "if uses pvt flush to dk toilet".
VAL LABELS fldkpvt    0 "does not use pvt flush to dk toilet"
                1 "uses pvt flush to dk toilet".

COMPUTE fldkshr = 0.
IF ((hv205 = 13) & hv225 = 1) fldkshr = 1.
VAR LABELS fldkshr "if uses shared flush to dk toilet".
VAL LABELS fldkshr    0 "does not use shared flush to dk toilet"
                1 "uses shared flush to dk toilet".

COMPUTE flkdpvt = 0.
IF ((hv205 = 14 | hv205 = 15) & hv225 = 0) flkdpvt = 1.
VAR LABELS flkdpvt "if uses pvt flush to dk toilet - dk var
name".
VAL LABELS flkdpvt    0 "does not use pvt flush to dk toilet"
                1 "uses pvt flush to dk toilet".

COMPUTE flkdshr = 0.
IF ((hv205 = 14 | hv205 = 15) & hv225 = 1) flkdshr = 1.
VAR LABELS flkdshr "if uses shared flush to dk toilet - dk var
name".
VAL LABELS flkdshr    0 "does not use shared flush to dk toilet"
                1 "uses shared flush to dk toilet".


COMPUTE vippvt = 0.
IF (hv205 = 22 & hv225 = 0) vippvt = 1.
VAR LABELS vippvt "if uses pvt vip latrine".
VAL LABELS vippvt     0 "does not use pvt vip latrine"
                1 "uses pvt vip latrine".

COMPUTE vipshr = 0.
IF (hv205 = 22 & hv225 = 1) vipshr = 1.
VAR LABELS vipshr "if uses shared vip latrine".
VAL LABELS vipshr     0 "does not use shared vip latrine"
                1 "uses shared vip latrine".


COMPUTE latopvt = 0.
IF ((hv205 = 23 | hv205 = 42) & hv225 = 0) latopvt = 1.
VAR LABELS latopvt "if uses pvt trad open latrine".
VAL LABELS latopvt    0 "does not use pvt trad open latrine"
                1 "uses pvt trad open latrine".

COMPUTE latoshr = 0.
IF ((hv205 = 23 | hv205 = 42) & hv225 = 1) latoshr = 1.
VAR LABELS latoshr "if uses shared trad open latrine".
VAL LABELS latoshr    0 "does not use shared trad open latrine"
                1 "uses shared trad open latrine".

COMPUTE latbush = 0.
IF (hv205 = 31) latbush = 1.
```

```
VAR LABELS latbush "if uses bush for latrine".
VAL LABELS latbush    0 "does not use bush for latrine"
                1 "uses bush for latrine".


COMPUTE latphang = 0.
IF (hv205 = 43 & hv225 = 0) latphang = 1.
VAR LABELS latphang "if uses pvt hanging latrine".
VAL LABELS latphang   0 "does not use pvt hanging latrine"
                1 "uses pvt hanging latrine".

COMPUTE latshang = 0.
IF (hv205 = 43 & hv225 = 1) latshang = 1.
VAR LABELS latshang "if uses shared hanging latrine".
VAL LABELS latshang   0 "does not use shared hanging latrine"
                1 "uses shared hanging latrine".


* (floor, walls, roof, cooking fuel).
FREQ hv213 hv214 hv215 hv226.


* FLOORING.

COMPUTE dirtfloo = 0.
IF (hv213 = 11) dirtfloo = 1.
VAR LABELS dirtfloo "if floors are made of earth".
VAL LABELS dirtfloo   0 "floors are not made of earth"
                1 "floors are made of earth".

COMPUTE natfloo = 0.
IF (hv213 = 21 | hv213 = 22) natfloo = 1.
VAR LABELS natfloo "if floors are made of wood planks or
palm/bamboo".
VAL LABELS natfloo    0 "floors are not made of natural
materials"
                1 "floors are made of natural materials".

COMPUTE tilefloo = 0.
IF (hv213 = 31 | hv213 = 32 | hv213 = 35) tilefloo = 1.
VAR LABELS tilefloo "if floors are made of ceramic/parquet tile
(+1 carpet)".
VAL LABELS tilefloo   0 "floors are not made of tile"
                1 "floors are made of tile".

COMPUTE cemtfloo = 0.
IF (hv213 = 34 | hv213 = 96) cemtfloo = 1.
VAR LABELS cemtfloo "if floors are made of cement (+8 other)".
VAL LABELS cemtfloo   0 "floors are not made of cement"
                1 "floors are made of cement".
```

```
* WALL MATERIAL.

COMPUTE natwall = 0.
IF (hv214 = 11 | hv214 = 12) natwall = 1.
VAR LABELS natwall "if walls are made of cane/palm/trunks".
VAL LABELS natwall    0 "walls are not made of cane/palm/trunks"
                1 "walls are made of cane/palm/trunks".

COMPUTE dirtwall = 0.
IF (hv214 = 13) dirtwall = 1.
VAR LABELS dirtwall "if walls are made of dirt".
VAL LABELS dirtwall   0 "walls are not made of dirt"
                1 "walls are made of dirt".

COMPUTE bamwall = 0.
IF (hv214 = 22 | hv214 = 23) bamwall = 1.
VAR LABELS bamwall "if walls are made of bamboo/sticks/mud".
VAL LABELS bamwall    0 "walls are not made of bamboo/sticks/mud"
                1 "walls are made of bamboo/sticks/mud".

COMPUTE tinwall = 0.
IF (hv214 = 24 | hv214 = 25 | hv214 = 31) tinwall = 1.
VAR LABELS tinwall "if walls are made of tin (+2 other)".
VAL LABELS tinwall    0 "walls are not made of tin"
                1 "walls are made of tin".

COMPUTE cemtwall = 0.
IF (hv214 = 32) cemtwall = 1.
VAR LABELS cemtwall "if walls are made of cemt".
VAL LABELS cemtwall   0 "walls are not made of cemt"
                1 "walls are made of cemt".

COMPUTE stblwall = 0.
IF (hv214 = 33 | hv214 = 34) stblwall = 1.
VAR LABELS stblwall "if walls are made of mortared stone or
bricks".
VAL LABELS stblwall   0 "walls are not made of stone/bricks"
                1 "walls are made of stone/bricks".

COMPUTE woodwall = 0.
IF (hv214 = 35) woodwall = 1.
VAR LABELS woodwall "if walls are made of wood planks/shingles".
VAL LABELS woodwall   0 "walls are not made of wood
planks/shingles"
                1 "walls are made of wood planks/shingles".

COMPUTE othwall = 0.
IF (hv214 = 96) othwall = 1.
VAR LABELS othwall "if walls are made of other".
VAL LABELS othwall    0 "walls are not made of other"
                1 "walls are made of other".
```

```
* ROOFING MATERIALS.

COMPUTE natroof = 0.
IF (hv215 = 11 | hv215 = 12 | hv216 = 23) natroof = 1.
VAR LABELS natroof "if sky or green roofing".
VAL LABELS natroof    0 "roof is not made of greenstuff"
                1 "roof is made of greenstuff".

COMPUTE feasroof = 0.
IF (hv215 = 31) feasroof = 1.
VAR LABELS feasroof "if iron/asbestos sheet roofing".
VAL LABELS feasroof   0 "roof is not made of iron/asbestos sheet"
                1 "roof is made of iron/asbestos sheet".

COMPUTE tferoof = 0.
IF (hv215 = 31 | hv215 = 32) tferoof = 1.
VAR LABELS tferoof "if tin/wood roofing".
VAL LABELS tferoof    0 "roof is not made of tin/wood"
                1 "roof is made of tin/wood".

COMPUTE cemtroof = 0.
IF (hv215 = 33 | hv215 = 34) cemtroof = 1.
VAR LABELS cemtroof "if cemt roofing (+7 ceramic tiles)".
VAL LABELS cemtroof   0 "roof is not made of cemt"
                1 "roof is made of cemt".

COMPUTE othroof = 0.
IF (hv215 = 96) othroof = 1.
VAR LABELS othroof "if other roofing".
VAL LABELS othroof    0 "walls are not made of other"
                1 "walls are made of other".



* COOKING FUEL.

COMPUTE cooklpg = 0.
IF (hv226 = 2) cooklpg = 1.
VAR LABELS cooklpg "if uses lpg/cylinder gas for cooking fuel".
VAL LABELS cooklpg    0 "no lpg gas cooking fuel"
                1 "uses lpg gas cooking fuel".

COMPUTE cookngas = 0.
IF (hv226 = 1 | hv226 = 3 | hv226 = 4) cookngas = 1.
VAR LABELS cookngas "if uses natural gas for cooking fuel (+7elec
& 3biogas)".
VAL LABELS cookngas   0 "no natural gas cooking fuel"
                1 "uses natural gas cooking fuel".


COMPUTE cookwood = 0.
```

```
IF (hv226 = 6 | hv226 = 7 | hv226 = 8) cookwood = 1.
VAR LABELS cookwood "if uses wood for cooking fuel (+26char,
2coal)".
VAL LABELS cookwood   0 "no wood cooking fuel"
                1 "uses wood cooking fuel".

COMPUTE cookstrw = 0.
IF (hv226 = 9) cookstrw = 1.
VAR LABELS cookstrw "if uses straw/shrubs/grass for cooking
fuel".
VAL LABELS cookstrw   0 "no straw/shrubs/grass cooking fuel"
                1 "uses straw/shrubs/grass cooking fuel".

COMPUTE cookcrop = 0.
IF (hv226 = 10) cookcrop = 1.
VAR LABELS cookcrop "if uses crop residues for cooking fuel".
VAL LABELS cookcrop   0 "no crop residues cooking fuel"
                1 "uses crop residues cooking fuel".

COMPUTE cookdung = 0.
IF (hv226 = 11) cookdung = 1.
VAR LABELS cookdung "if uses dung for cooking fuel".
VAL LABELS cookdung   0 "no dung cooking fuel"
                1 "uses dung cooking fuel".

COMPUTE cookoth = 0.
IF (hv226 = 96 | hv226 = 5) cookoth = 1.
VAR LABELS cookoth "if other cooking fuel or kerosene".
VAL LABELS cookoth    0 "not other"
                1 "other/kero".


COMPUTE hectares = 0.
COMPUTE hectares = hv245.
IF (hv244 = 0) hectares = 0.
VAR LABELS hectares "number of ag hectares owned".
EXECUTE.
FREQ hectares.


COMPUTE memsleep = (hv012/hv216).
IF (MISSING(hv216)) hv216 = hv012.
VARIABLE LABELS memsleep "number of members per sleeping room".

FREQ memsleep.

IF (MISSING(hv206)) hv206 = 0.
IF (MISSING(hv207)) hv207 = 0.
IF (MISSING(hv208)) hv208 = 0.
IF (MISSING(hv209)) hv209 = 0.
IF (MISSING(hv210)) hv210 = 0.
IF (MISSING(hv211)) hv211 = 0.
```

```
IF (MISSING(hv212)) hv212 = 0.
IF (MISSING(hv221)) hv221 = 0.
IF (MISSING(hv243a)) hv243a = 0.
IF (MISSING(hv243b)) hv243b = 0.
IF (MISSING(hv243c)) hv243c = 0.
IF (MISSING(hv243d)) hv243d = 0.
IF (MISSING(hv246b)) hv246b = 0.
IF (MISSING(hv246g)) hv246g = 0.
IF (MISSING(hv246h)) hv246h = 0.
IF (MISSING(hectares)) hectares = 0.
EXECUTE.

FREQ hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221
hv243a hv243b hv243c hv243d hv246b hv246g hv246h
hectares h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel
h2spring h2osurf flswpvt flswshr flstpvt flstshr fldkpvt fldkshr
flkdpvt flkdshr vippvt vipshr latopvt latoshr latbush latphang
latshang dirtfloo natfloo tilefloo cemtfloo natwall dirtwall
bamwall
tinwall cemtwall stblwall woodwall othwall natroof feasroof
tferoof
cemtroof othroof cooklpg cookngas cookwood cookstrw cookcrop
cookdung cookoth memsleep.


* had to remove: cookwood h2spring : to make matrix positive
definite     .

FACTOR
  /VARIABLES hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221
hv243a hv243b hv243d hv246b hv246g hv246h
hectares h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel
h2osurf flswpvt flswshr flstpvt flstshr fldkpvt fldkshr
vippvt vipshr latopvt latoshr latbush latphang
latshang dirtfloo natfloo tilefloo cemtfloo natwall dirtwall
bamwall
 cemtwall stblwall woodwall othwall natroof
cemtroof othroof cooklpg cookngas cookstrw cookcrop
cookdung cookoth memsleep tferoof hv243c tinwall flkdpvt flkdshr
  /MISSING MEANSUB /ANALYSIS hv206 hv207 hv208 hv209 hv210 hv211
hv212 hv221
hv243a hv243b hv243d hv246b hv246g hv246h
hectares h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel
h2osurf flswpvt flswshr flstpvt flstshr fldkpvt fldkshr
vippvt vipshr latopvt latoshr latbush latphang
latshang dirtfloo natfloo tilefloo cemtfloo natwall dirtwall
bamwall
 cemtwall stblwall woodwall othwall natroof
cemtroof othroof cooklpg cookngas cookstrw cookcrop
cookdung cookoth memsleep tferoof hv243c tinwall flkdpvt flkdshr
  /PRINT UNIVARIATE INITIAL EXTRACTION FSCORE
  /CRITERIA FACTORS(1) ITERATE(25)
```

```
  /EXTRACTION PC
  /ROTATION NOROTATE
  /SAVE REG(ALL)
  /METHOD=CORRELATION .


save outfile="C:\hnp2a\Bangladesh 2007bd07assets.sav".
COMPUTE hhmemwt = hv005/1000000 * hv012 .
VARIABLE LABELS hhmemwt 'HH members weighting for Index' .

WEIGHT
BY hhmemwt .
FREQUENCIES
VARIABLES=fac1_1  /FORMAT=NOTABLE
/NTILES= 5
/STATISTICS=STDDEV MINIMUM MAXIMUM MEAN MEDIAN /ORDER  ANALYSIS .


RECODE
fac1_1
(Lowest thru -0.7498957576045=1)  (-0.7498957576045 thru
-0.5833892745304=2)  (-0.5833892745304 thru
-0.3266716990758=3)  (-0.3266716990758 thru 0.3458140646572=4)
(0.3458140646572 thru Highest=5)  INTO
wlthind5 .
VARIABLE LABELS wlthind5 'Wealth Index Quintiles'.
EXECUTE .

write outfile="C:\hnp2a\Bangladesh 2007\bd07scores.dat" records=1
table
/hhid fac1_1 wlthind5.
execute.

MEANS
  TABLES=hv206 hv207 hv208 hv209 hv210 hv211 hv212 hv221
hv243a hv243b hv243d hv246b hv246g hv246h
hectares h2opipe h2oyard h2opub h2otube h2ppvwel h2pydwel
h2osurf flswpvt flswshr flstpvt flstshr fldkpvt fldkshr
vippvt vipshr latopvt latoshr latbush latphang
latshang dirtfloo natfloo tilefloo cemtfloo natwall dirtwall
bamwall
 cemtwall stblwall woodwall othwall natroof
cemtroof othroof cooklpg cookngas cookstrw cookcrop
cookdung cookoth memsleep tferoof hv243c tinwall flkdpvt flkdshr
BY
 wlthind5
  /CELLS MEAN  .

FREQ wlthind5.
WEIGHT OFF.
FREQ wlthind5.
```