**Let me raise one simple string manipulation like bellow.**

We use java substring to define one function Concat() like bellow.

public String concat(String **str1**, int **leading**, String **str2**, int **following**)

It will take **leading** count of substring from start of the string **str1** and concat with **following** count of substring from end of the string **str2**, the will be one Mongolian word.

Let us check what will happen with both of the “toggle-logic” and “over-ride” logic based encoding.

1. **“toggle-logic” based encoding** ISSUE HERE !!!

concat( “ᠨᠠᠷᠢᠨ”, 3, “ᠰᠠᠷᠠᠭᠤᠯ”, 4) 🡺 “ᠨᠠᠷᠠᠭᠤᠯ”

concat( “ᠰᠠᠠᠶ᠋ᠢᠬᠠᠨ”, 4, “ᠠᠭᠤᠤ”，2) 🡺 “ᠰᠠᠶ᠋ᠤᠤ” ←　we expected here “ᠰᠠᠶᠤᠤ”

concat( “ᠮᠠᠶ᠋ᠢᠭ”, 4, “ᠬᠤᠤᠵᠠᠯᠠᠬᠤ”,8) 🡺 “ᠮᠠᠶ᠋ᠤᠤᠵᠠᠯᠠᠬᠤ” ←　we expected here “ᠮᠠᠶᠤᠤᠵᠠᠯᠠᠬᠤ”

concat( “ᠳᠠᠯᠠᠨ᠍”, 3, “ᠭᠢᠯᠪᠠᠰ”，3) 🡺 “ᠳᠠᠯᠪᠠᠰ”

concat( “ᠴᠠᠷᠢᠯ”, 3, “ᠣᠷᠭᠢᠯ”, 3) 🡺 “ᠴᠠᠷᠭᠢᠯ”

ᠨᠠᠷᠢᠨ - <U1828\_NA><U1820\_A><U1837\_RA><U1822\_I><U1828\_NA>

ᠰᠠᠷᠠᠭᠤᠯ - <U1830\_SA><U1820\_A><U1837\_RA><U1820\_A><U182D\_GA><U1824\_U><U182F\_LA>

ᠨᠠᠷᠠᠭᠤᠯ - <U1828\_NA><U1820\_A><U1837\_RA> + <U1820\_A><U182D\_GA><U1824\_U><U182F\_LA>

ᠰᠠᠠᠶ᠋ᠢᠬᠠᠨ - <U1830\_SA><U1820\_A><U1836\_YA>**<U180B?>** <U1822\_I><U182C\_QA><U1820\_A><U1828\_NA>

ᠠᠭᠤᠤ - <U1820\_A><U182D\_GA><U1824\_U><U1824\_U>

ᠰᠠᠶ᠋ᠤᠤ - <U1830\_SA><U1820\_A><U1836\_YA>**<U180B?>** + <U1824\_U><U1824\_U>

ᠮᠠᠶ᠋ᠢᠭ - <U182E\_MA><U1820\_A><U1836\_YA>**<U180B?>**<U1822\_I><U182D\_GA>

ᠬᠤᠤᠵᠠᠯᠠᠬᠤ - <U182C\_QA><U1824\_U><U1824\_U><U1835\_JA><U1820\_A><U182F\_LA><U1820\_A><U182C\_QA><U1824\_U>

ᠮᠠᠶ᠋ᠤᠤᠵᠠᠯᠠᠬᠤ - <U182E\_MA><U1820\_A><U1836\_YA>**<U180B?> +**

<U1824\_U><U1824\_U><U1835\_JA><U1820\_A><U182F\_LA><U1820\_A><U182C\_QA><U1824\_U>

ᠳᠠᠯᠠᠨ᠍ - <U1833\_DA><U1820\_A><U182F\_LA><U1820\_A><U1828\_NA>

ᠭᠢᠯᠪᠠᠰ - <U182D\_GA><U1822\_I><U182F\_LA><U182A\_BA><U1820\_A><U1830\_SA>

ᠳᠠᠯᠪᠠᠰ - <U1833\_DA><U1820\_A><U182F\_LA> + <U182A\_BA><U1820\_A><U1830\_SA>

ᠴᠠᠷᠢᠯ - <U1834\_CHA><U1820\_A><U1837\_RA><U1822\_I><U182F\_LA>

ᠣᠷᠭᠢᠯ - <U1823\_O><U1837\_RA><U182D\_GA><U1822\_I><U182F\_LA>

ᠴᠠᠷᠭᠢᠯ - <U1833\_CHA><U1820\_A><U1837\_RA> + <U182D\_GA><U1822\_I><U182F\_LA>

We will be not able to prepare all of the string manipulation function Mongolian Specific request. How big influence it will be. Please imaging the impact seriously !!!

1. **“Over-Ride logic” based encoding exactly SOLVE THE PROBLEM!!!**

**I have used FVS3 <U180D> to over-ride U1836\_YA Medial Default Form.**

concat( “ᠨᠠᠷᠢᠨ”, 3, “ᠰᠠᠷᠠᠭᠤᠯ”, 4) 🡺 “ᠨᠠᠷᠠᠭᠤᠯ”

concat( “ᠰᠠᠠᠶ᠋ᠢᠬᠠᠨ”, 4, “ᠠᠭᠤᠤ”，2) 🡺 “ᠰᠠᠶᠤᠤ” ←　It is our expected word here “ᠰᠠᠶᠤᠤ”

concat( “ᠮᠠᠶ᠋ᠢᠭ”, 4, “ᠬᠤᠤᠵᠠᠯᠠᠬᠤ”,8) 🡺 “ᠮᠠᠶᠤᠤᠵᠠᠯᠠᠬᠤ” ←　It is our expected word here “ᠮᠠᠶᠤᠤᠵᠠᠯᠠᠬᠤ”

concat( “ᠳᠠᠯᠠᠨ᠍”, 3, “ᠭᠢᠯᠪᠠᠰ”，3) 🡺 “ᠳᠠᠯᠪᠠᠰ”

concat( “ᠴᠠᠷᠢᠯ”, 3, “ᠣᠷᠭᠢᠯ”, 3) 🡺 “ᠴᠠᠷᠭᠢᠯ”

ᠨᠠᠷᠢᠨ - <U1828\_NA><U1820\_A><U1837\_RA><U1822\_I><U1828\_NA>

ᠰᠠᠷᠠᠭᠤᠯ - <U1830\_SA><U1820\_A><U1837\_RA><U1820\_A><U182D\_GA><U1824\_U><U182F\_LA>

ᠨᠠᠷᠠᠭᠤᠯ - <U1828\_NA><U1820\_A><U1837\_RA> + <U1820\_A><U182D\_GA><U1824\_U><U182F\_LA>

ᠰᠠᠠᠶ᠋ᠢᠬᠠᠨ - <U1830\_SA><U1820\_A><U1836\_YA>**<U180D>** <U1822\_I><U182C\_QA><U1820\_A><U1828\_NA>

ᠠᠭᠤᠤ - <U1820\_A><U182D\_GA><U1824\_U><U1824\_U>

ᠰᠠᠶᠤᠤ - <U1830\_SA><U1820\_A><U1836\_YA>**<U180D>** + <U1824\_U><U1824\_U>

ᠮᠠᠶ᠋ᠢᠭ - <U182E\_MA><U1820\_A><U1836\_YA>**<U180D>**<U1822\_I><U182D\_GA>

ᠬᠤᠤᠵᠠᠯᠠᠬᠤ - <U182C\_QA><U1824\_U><U1824\_U><U1835\_JA><U1820\_A><U182F\_LA><U1820\_A><U182C\_QA><U1824\_U>

ᠮᠠᠶᠤᠤᠵᠠᠯᠠᠬᠤ - <U182E\_MA><U1820\_A><U1836\_YA>**<U180D> +**

<U1824\_U><U1824\_U><U1835\_JA><U1820\_A><U182F\_LA><U1820\_A><U182C\_QA><U1824\_U>

ᠳᠠᠯᠠᠨ᠍ - <U1833\_DA><U1820\_A><U182F\_LA><U1820\_A><U1828\_NA>

ᠭᠢᠯᠪᠠᠰ - <U182D\_GA><U1822\_I><U182F\_LA><U182A\_BA><U1820\_A><U1830\_SA>

ᠳᠠᠯᠪᠠᠰ - <U1833\_DA><U1820\_A><U182F\_LA> + <U182A\_BA><U1820\_A><U1830\_SA>

ᠴᠠᠷᠢᠯ - <U1834\_CHA><U1820\_A><U1837\_RA><U1822\_I><U182F\_LA>

ᠣᠷᠭᠢᠯ - <U1823\_O><U1837\_RA><U182D\_GA><U1822\_I><U182F\_LA>

ᠴᠠᠷᠭᠢᠯ - <U1833\_CHA><U1820\_A><U1837\_RA> + <U182D\_GA><U1822\_I><U182F\_LA>

Note: because Mongolian Baiti font has not supported this new over-ride logic, I am using default encoding to showing the correct word here. Please refer the Unicode string.