# Pseudo code

**INPUTS:**

SUBNAME, CHRS, SUBTYPE, T\_ID, LEC1, LEC2, LEC3, LEC4, TBREAK, LEC5, LEC6, LEC7

Maximum M\_SUBJECT 8

**Algorithm:**

**Structure SUBJECT**

{

SUBNAME

CHRS

SUBTYPE

}

**Structure TIMETABLE**

{

T\_ID

LEC1

LEC2

LEC3

LEC4

TBREAK

LEC5

LEC6

LEC7

}

**SLOT\_ALLOCATION (SUBJECT S[ ], TIMETABLE T [ ] , M\_SUBJECT)**

{

Let WEEKDAY = 1

For i=1 to M\_SUBJECT

{

If ( i=1 | | i =3 || i =5 || i =7 )

{

if (S[ i ].SUBTYPE == "Lab" || S[ i ].SUBTYPE == "lab" || S[ i ].SUBTYPE == "l")

{

T[ WEEKDAY ].LEC1=S[ i ].SUBNAME

T[ WEEKDAY ].LEC2=S[ i ].SUBNAME

T[ WEEKDAY ].LEC3=S[ i ].SUBNAME

}

else if(S[ i ].SUBTYPE =="Theory" || S[ i ].SUBTYPE == "theory" || S[ i ].SUBTYPE == "th")

{

if(S[ i ].CHRS=="1")

{

T[ WEEKDAY ].LEC1=S[ i ].SUBNAME

T[ WEEKDAY ].LEC2= “ – ”

T[ WEEKDAY ].LEC3= “ – ”

}

else if(S[ i ].CHRS =="2")

{

T[ WEEKDAY ].LEC1=S[ i ].SUBNAME

T[ WEEKDAY ].LEC2=S[ i ].SUBNAME

T[ WEEKDAY ].LEC3= “ – ”

}

else if(S[ i ].CHRS =="3")

{

T[ WEEKDAY ].LEC1=S[ i ].SUBNAME

T[ WEEKDAY ].LEC2=S[ i ].SUBNAME

T[ WEEKDAY ].LEC3=S[ i ].SUBNAME

}

}

Else

{

T[ WEEKDAY ].LEC1= “ – ”

T[ WEEKDAY ].LEC2= “ – ”

T[ WEEKDAY ].LEC3= “ – ”

}

}

If ( i =2 || i =4 || i =6 || i =8)

{

if (S[ i ].SUBTYPE == "Lab" || S[ i ].SUBTYPE == "lab" || S[ i ].SUBTYPE == "l")

{

T[ WEEKDAY ].LEC4= “ – ”

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5=S[ i ].SUBNAME

T[ WEEKDAY ].LEC6=S[ i ].SUBNAME

T[ WEEKDAY ].LEC7=S[ i ].SUBNAME

}

else if((S[ i ].SUBTYPE == "Theory" || S[ i ].SUBTYPE == "theory" || S[ i ].SUBTYPE == "th") &&

(S[ i – 1 ].SUBTYPE == "Theory" || S[ i – 1 ].SUBTYPE == "theory" || S[ i – 1 ].SUBTYPE == "th") &&

(S[ i - 1 ].CHRS || S[ i – 1 ].CHRS == "2" || S[ i – 1 ].CHRS == "3"))

{

if (S[ i ].CHRS == "1")

{

T[ WEEKDAY ].LEC4=S[ i ].SUBNAME

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= “ – ”

T[ WEEKDAY ].LEC6= “ – ”

T[ WEEKDAY ].LEC7= “ – ”

}

else if (S[ i ].CHRS == "2")

{

T[ WEEKDAY ].LEC4=S[ i ].SUBNAME

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= S[ i ].SUBNAME

T[ WEEKDAY ].LEC6= “ – ”

T[ WEEKDAY ].LEC7= “ – ”

}

else if (S[ i ].CHRS == "3")

{

T[ WEEKDAY ].LEC4=S[ i ].SUBNAME

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= S[ i ].SUBNAME

T[ WEEKDAY ].LEC6= S[ i ].SUBNAME

T[ WEEKDAY ].LEC7= “ – ”

}

}

else if ((S[ i ].SUBTYPE == "Theory" || S[ i ].SUBTYPE == "theory" || S[ i ].SUBTYPE == "th") &&

(S[ i - 1 ].SUBTYPE == "Lab" || S[ i – 1 ].SUBTYPE == "lab" || S[ i – 1 ].SUBTYPE == "l"))

{

if (S[ i ].CHRS == "1")

{

T[ WEEKDAY ].LEC4=S[ i ].SUBNAME

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= “ – ”

T[ WEEKDAY ].LEC6= “ – ”

T[ WEEKDAY ].LEC7= “ – ”

}

else if (S[ i ].CHRS == "2")

{

T[ WEEKDAY ].LEC4=S[ i ].SUBNAME

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= S[ i ].SUBNAME

T[ WEEKDAY ].LEC6= “ – ”

T[ WEEKDAY ].LEC7= “ – ”

}

else if (S[ i ].CHRS == "3")

{

T[ WEEKDAY ].LEC4=S[ i ].SUBNAME

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= S[ i ].SUBNAME

T[ WEEKDAY ].LEC6= S[ i ].SUBNAME

T[ WEEKDAY ].LEC7= “ – ”

}

}

Else

{

T[ WEEKDAY ].LEC4=“ – ”

T[ WEEKDAY ].TBREAK = “BREAK”

T[ WEEKDAY ].LEC5= “ – ”

T[ WEEKDAY ].LEC6= “ – ”

T[ WEEKDAY ].LEC7= “ – ”

}

WEEKDAY = WEEKDAY+ 1

}

}

}