Nama :
NIM :
Mata Kuliah :
Dosen :
Tanggal :

1 Ket :

- Apk edukasi (E) = x_1
- Apk Market place (MP) = x_2

- Z maks = $120.000 x_1 + 150.000 x_2$
- kendala jam develepar ≤ 600
  Apk E : 8 jam
  Apk M : 12 jam
  } $8x_1 + 12x_2 \leq 600$
- kendalala jam ui/ux ≤ 300
  Apk. E : 4 jam
  Apk. M : 3 jam
  } $4x_1 + 3x_2 \leq 300$
  ketentuan : $x_1 \geq 0$, $x_2 \geq 0$

D. $8x_1 + 12x_2 \leq 600$

x_1	75	0	(75, 0) B
x_2	0	50	(0, 50) A

$4x_1 + 3x_2 \leq 30$

x_1	75	0	(75, 0) D
x_2	0	100	(0, 100) C

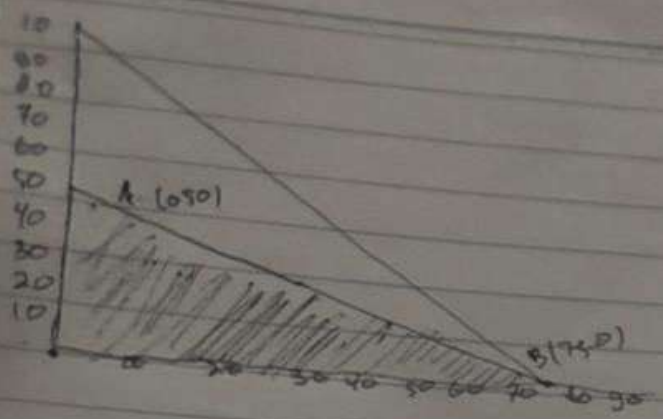
D $8x_1 + 12x_2 \leq 600$
$4x_1 + 3x_2 \leq 300$

$8x_1 + 12x_2 \leq 600$
$16x_1 + 12x_2 \leq 1.200$
$-8x_1 + 0 \leq -600$
$x_1 \leq \frac{-600}{-8}$
$x_1 \leq 75$

$8x_1 + 12x_2 \leq 600$
$4x_1 + 3x_2 \leq 300$

$8x_1 + 12x_2 \leq 600$
$8x_1 + 6x_2 \leq 600$
$0 + 6x_2 \leq 0$
$x_2 \leq \frac{0}{6}$
$x_2 = 0$

TITIK O : (0,0) 120.000 (0) + 150.000 (0) = 0
.. A : (0,50) 120.000 (0) + 150.000 (50) = 7.500.000
TITIK B = D : (75,0) 120.000 (75) + 150.000 (0) = 9.000.000



2.) Ket $S_1A = 12$ $S_2A = 14$

$S_1B = 10$ $S_2B = 9$

$S_1C = 9$ $S_2C = 11$

Mak Z $= 12S_1A + 10S_1B + 9S_1C + 14S_2A + 9S_2B + 11S_2C$

Batas kapasitas = Server $S_1 = S_1A + S_1B + S_1C = 100$ TB

$\therefore S_2 = S_2A + S_2B + S_2C = 120$ TB

Batas permintaan wilayah A : $S_1A + S_2A = 80$ TB

$\therefore$ B : $S_1B + S_2B = 90$ TB

$\therefore$ C : $S_1C + S_2C = 50$ TB

○ Alokasi Profit besar

- Laba tertinggi $S_2A = 14$ A = 8TB

Batas permintaan wilayah ~~$S_2A = 11$~~

Sisa kapasitas S_2 - Batas Permintaan wilayah A

120 - 80 = 40 (Sisa S_2)

Permintaan A terpenuhi

- Laba tertinggi $S_2C = 11$

Batas permintaan wilayah C = 50 TB

Sisa kapasitas S_2 = 40

kapasitas S_2 - Batas permintaan wilayah C

40 - 50 = 10 (kurang)

- Laba tertinggi $S_1B = 10$.

Btas permintaan wilayah B = 90 TB

• kapasitas S_1 - Batas permintaan wilayah B

= 100 - 90 = 10 (sisa S_1)

B terpenuhi

4. Permintaan C kurang = 10
Sisa kapasitas S_1 = 10 TB.
. Sisa kapasitas S_1 - Permintaan C
= 10 - 10 = 0
C terpenuhi

Jadi semua Permintaan terpenuhi

▷ Total Laba maksimum.
Zmak = (SB 10) + (S_{1C} 9) + (S_{2A} 14) + (S_{2C} 11)
= (80.10) + (10.9) + (80.14) + (40.11)
= 800 + 90 + 1120 + 440
= 2.550.

Kes.
Laba terbesar,
S_1 → wilayah B = 90 TB.
S_2 → .. A = 80 TB
S_2 → .. C = 40 TB
S_2 → .. C = 60 TB

Laba maks = 2.550 TB.