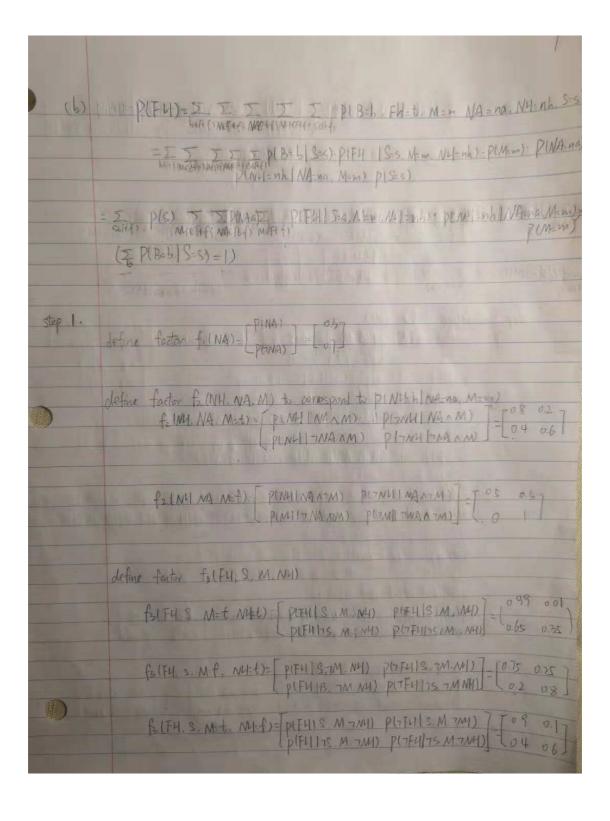
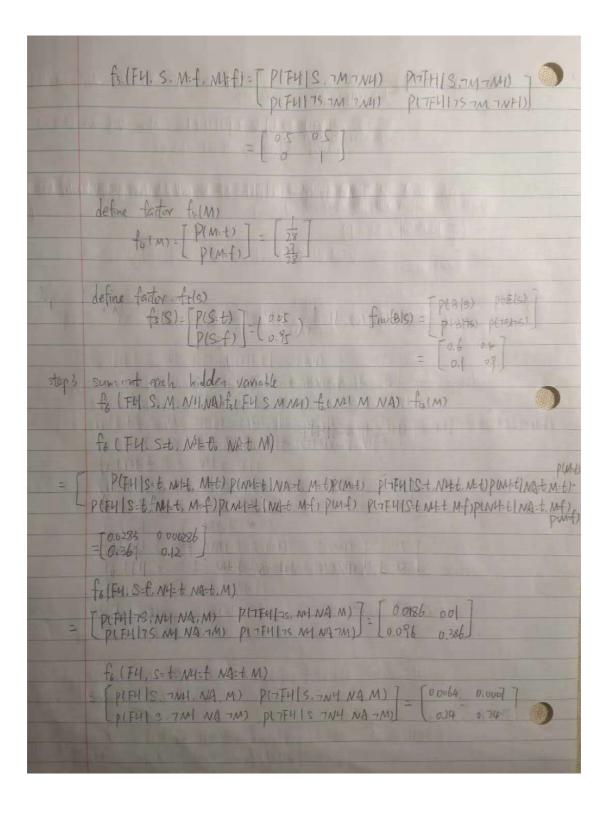
P(S)=005

P(BS)=0.6

P(BTS)=0.1.

P(NA)=0.3

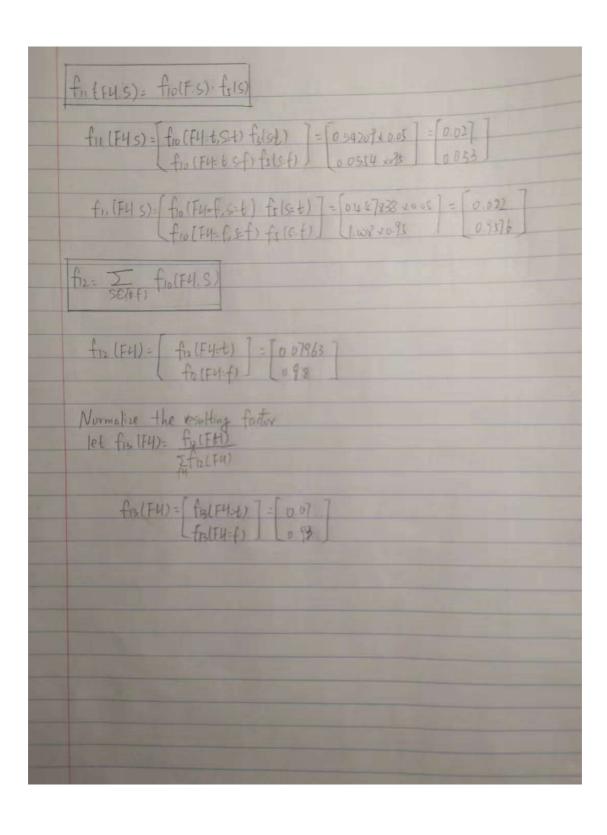




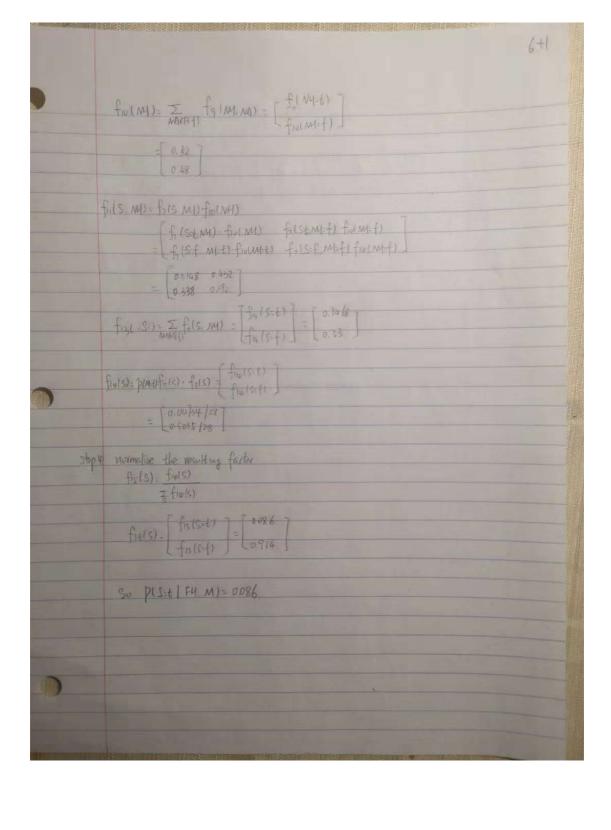
	fo (Fy. S.t., Ny.t., N.A. f. M)
	T P(TH S=t, NH=t NA-f, M) P(TH S=t, NH=1, NA-f, M) 170.014 0.00014]
	PLEUIST MULL NO FOMD PLOFULS TO MEL NA FORD TO 0
	fo (FU, S-f, NH-f, NA-t, M)
	[PIFHIS F NH F, NAIL M) PITFHIS F, NH F NAIL M) = [0008 0004]
	fo (FU, S.f. NI.t. NA.f. M)
1	P(FH175, NH, 7MA, M) P(TFH175, NH, 7MA, M) = [0.009 0.05] P(FH175, NH, 7MA, 7M) P(TFH175, NH, 7MA, 7M) = [0 0]
	follow Set MHEF NAF, M)
	P(F4 5, 7N4, 7N4, M) P(F4 5, 7N4, 7N4, M) = [0.019 0.002] P(F4 5, 7N4, 7N4, 7M) P(7F4 5, 1N4, 7N4, 7M) = [0.482 0.482]
	follow sof what NA: f. M)
	PIFULTS THE THAT AND PLTFULTS THE THAT THE OUTS ONS
	FICTURES MY NA): I FOLFUS, NUL NA, M)
	fifust Nutt, Nat) = 7f(FiftSt, Mtt, NAt)] _ 0.2883]
	fifthes=t Mit, NAt) (0.12028)
	for (F4. S.F. NH-L. NA-L) = [for F4. 6.5. f. M-t. NA-L) - [0.1146]
	fy [F4, s=6, N4=f, NA, 6) - [filen=t, St. N4=f NA+)] - [0.2464]
	firefish Met NA 0 2407

for (E4, st, Mt, NA-f) = for File for st Mt NA+ [0,0004]
fr (FU, S.f., MI=f., NA=t) = [fr/F1/+t. S.f., MI (NA+t) = [0.029] fr/F1/+t. S.f., MI=f. NA=t] = [0.029]
for (FM, S.f. NM+t. NA:f) = [for (FM+t, S-f. NM+t. NA+f)] [0.08] for (FM+f. S.f. NM+t. NA+f) [0.08]
fr (FU.S=t. NUL f. NA-f) = [fr (FU=t.S=t. NULF) NAF) [0.50] [GEV = f.S=t. NULF (NA-f) 0.484]
fo (F4, S=f, M=f, NA-f) = [f(F4+t, S=f, N++f, NA+f)] = [U-0086]
FRIFHS.MINA)= fr(FHSMINA) fr(NA)
(FU C M, NA) = [f3 (Fuit, S=t, M=t, NA=t)] = [0.3885x 0.5] = [0.11643] [0.120286 x 0.5] = [0.036075]
FX (F4, S=f, M+t, NA.t) = [fx (F4+t, S=f, M+t, NA-t)] - [0.1146/0.3] - [0.03438] - [0.03438] - [0.1188]
f2 (F4.5.6, M+f NA+1) = f2 (F4.5.6. M+f. NA+1) = 0.2464.60.3 - 0.07392 7 (0.0734)
PRIFY St MET NO. () = [PRIFY t S.t. M.t. NA. f.) = [0.019 x 0.7] = [0.00098] TRIFY S.t. M. f. NA. f. 0.00098]
FITH Sof Mot NAt) = FORTH t, Sof. Mot. NAt) = 0.029 x03 = 0.0087 6 (FU t, St. Mot. NAt) 0.484x03 = 0.1452

fr (F4, S=f, N4:t, NA=f) = [fo (F4t, S=f M=t NA=f)] = [0.008 x0.7] 70.0063] fr (F4, S=f, N4:t, NA=f) = [0.008 x0.7] 70.0063]	
fright set, met, NAS) = [friends set met, NAS) = [0.550] [0.550] [0.350] [0.350]	
for (FU S = 6 M= f, NA f) = [& (FU + S = 6, M= f, NA f)] = [0 0076 x 0.7] = [0.7081] for (FU + f, S = 6, M= f, NA f)	
FREYSMET FORTH NA)	
fg (F4-t, S-t, M)= [fg(F4-t, S-t, M-t)] - [0.11747] fg (F4-t, S-t, M-f)] [0.42462]	
fg(F4=t, 3-f M) = fg(F4=t, S=f, M4=t) = [0.04068.]	
fs (F4-f, 3-t M) = [fs (F4-f, 5-t, M)-t)] = [0.036828] fs (F4-f, 5-t M-f)] = 0.41161]	
fg(F4=f, S=f, M)= [fg(F4=f, S=f, M=t)] = [0.15.8] fg(F4=f, S=f, M=f) [0.35.42]	
foltols)= 5 foltos M)	
fro(F4S) = [fo[f4+t,S+t)] = [0.54109] fro[f4+t S+)] (v. 0554)	
fro(FU-5)= fro(FU-f, s=t)]= [0.447838] fro(FU-f, s=f)] [1.608]	



	PLENTHAM) PLENTHAM)
(c)	P(S)F4, M) = P(SAF4AM) + P(SAF4AM)
	PLSIFH, M) = I I plB-b, Fu=t, M=t, NA=na, NM=nh, S) before MARTERS Mysters
	Plas I T P(B=1/S=5) P(F4+1/S=5, M=t, M=nh) P(M=t) P(NA=na) SERFI MACFIS MIERIES P(N4=nh) NA=na, M=t) P(M=t)
- 1	PIG) I I DINAMA P(E4=t) S.S. M.t. MENh) PIMO t) PIMENHINAMA M.t)
	(> P(B=6 S=5)=1)
top1	As denoted in part b. (Here factors fi-fs over the same as those of part b)
step2	Restricted the factors
	fo(NH, NA) = fo(MH, NA, M-t) fo(MH, NA) = [P(MH, NA, M) P(NH, NA, M)] = [0.8 0.2] P(M NA, M) P(NH, NA, M) = [0.4 0.6]
	fa(S. NU)= fa(F4=t, S M=t, M)
	for (M) = { P(F415, M, M) P(F415, M, 7M) } = [088 08] P(F4175, M, M) P(F4175, M, 7M) } = [065 04]
	f ₈ (M) f ₄ (M-t) = 78
	So prss. Fu=6, M=6)= fils) \(\Sigma\) fils My forms Na) from
gtep3	Som out holder variables [f(NA, M) - f(NA) fg(M, NA) =
	[0.24 0.06] = [0.28 0.02]



		9+1.
	fiz(s)= fi(s). fi(s) p(Met) P(Me-t) five(Retis)	
	= [0,02916×03/28] = [0.057x03/28]	
Stepy	normalize resulting factor	
	$f_{is(s)} = \frac{f_{iit(s)}}{\sum_{s \in i_1 f_{ii}(s)} f_{iit(s)}}$	
	fists) = [fists) = t] = [0.3384]	
	Su P(s f4, M.B. NA)= 0.3584	

する P(B E 4 G W) する B B P(B E 4 G W) 1 EP(BEAGW)= P(Wh) PLABEWEIT PHABEWEIT PLABEWEIT PLATER W. G. + PLAZE WOIT PLABEWEITEW + P(A7B7EW61) + P(7A7B7EW61) Plane WED+ Prant WED+ Plane E WG)+ Plane WED+ Plane WED+ PBA BTE N 6)+ PLATRITE W 6)+ PLIATE W 6)+ PLATE W 6)+ PLATE W 76)+ PLATEW + PlA & TE WTO 1+ PlA B TE W 760+ PlABTE W 760+ PlA BE W 76+ P (74 B. E W 76) + P174 78 7EW 76) ZZZ PIBE A GTW PIABETW GHT PIABETW GHT PIABETW GHT DITATBE TW 6)+ PLAIR 76 7W 6) + PLA B, TE TW A)+ PLA 76 76 76 7W 6) + = 10.03621 P(W G) = 0 062466 PLGIW) = PLGI. TW) 0 0362 DIABW 601 (2) PIBIWGA)= PLABWGE)

= PLABE WG) = PLABE WG)+ PLABE WG) = 002083

= PLABEWG) = PLABEWG) + PLABEWG) + PLABEWG) +
PLA7B7EWG)
= 0.044

PIA.B): ZZZ PIABEWA)

= PLABE, WG)+PLABE WG)+PLABE WG)+PLABE TWG)
= PLABE TW TG)+PLABE WG)+PLABE TWG)
= PLABE TW TG)+PLABE TWG)+PLABE TWG)

PIA) = ZZZZPIABEWED

PLABE WAST PLATE WAST PLABE TWAST TWAST WASTER AST PLATE TWAST TWASTER AST PLATE TWASTE TWAST

 $P(B|WAA) = \frac{0.02388}{0.004} = 0.1864$ $P(B|A) = \frac{0.0025}{0.1975} = 0.6564 = P(B|W 6.A)$

2 plblw) - prw)

PIBW = FE PLABBWE)

= PLA 13 E W 67) + PLABEWGN + PLABEWGN + PLABEW 761) +
PHABEW 761) + PLABEW761 + PLABEW 761 + PHABEW 6)

P(Blw) - PIBW = 007781 - 01672

PIBLAGW = 0664 Toburady they are not exel

4 PLEI A.B.)= P(E.4 B)

PIE. 4 B) = TE PIABEWAD

= PLABE, W.G)+ PLABE, TW. 6)+ PLABE W. 760+ PLABETW76) = 0.00475

PLA BI = ZZZ PLA BEWG

= PLABEW61+PLABTEW61+PLABETW61+PLABETW61+PLABTETW61+PLABTETW61+PLABTETW61+PLABTETW61+PLABTETW61-PLABTETW61
= 00005

PIEA): ZZZ PIA BEWG)

= P(ABEW6)+ P(A7BEW6)+ P(ABEW767)+
P(A7BE7W6)+ P(A7BE7W767)+
p(A7BE7W6)+ P(A7BE7W76)
= 0.00915

PIA)= 0 13/1

P(E(A(3)) = P(A(3)) = 0.00475 = 0.0526

 $P(E|A) = \frac{P(A|E)}{P(A)} = \frac{0.00927}{0.1575} = 0.067.$ Obviously they are not equal

```
PLABE W. G) = P(B) P(E) P(A) BE) P(W/A) P(G/A)
                 = 0 | X DUS X U 95 X U 8 Y U Y - U.00/62
 P(TABEWG) = P(B) P(E) P(TALRE) - P(W)-4) P(B/64)
                  = 01 2003 x (1-0.95) x 04 20.05 = 0.000000
                 = 1-01) x nd x 01x 0.3x04=000144
   P(7A 7B & W G) = P(7B) P(E) P(7A) 7B E) P(W)7A) P(G)4)
                  = (1-04) 4007 × 11 0-1) × 6-11 40 02 = 0 0081
(1) P(A. B TE W G) = P(B) P(TE) P(A) B TE) P(W A) P(G) A)
                  = 01 x (1005) x 09 x 08x 04 = 002/36
D Plank TE W (1) - PIBO PITE) PLATISTED PIWITAD PIGITAD
                     = b. x (+avt) x (+o+) (04 x a.ot = 0.0019
O PIARETWG) = PIB) PIE) PIAL RE) PITULA) PIGIA)
                   = 01x00x035x11-081x04=000038
 B PATAB & TW G1) = PLB) PIE PLTA (BE) PLTW (TA) PL G (TA)
                    =01 ×005 × (+0.4) × (1-0.4) × 005 = 0 0000015
 PI A TB TE W 6) = P(TB) P(TE) PIA(TB-TE) P(W) (A) P(6) (A)
                     = (1-01) 1 (1-005) 2005 408 x04 =001318
 (1) PLATE TE W (1) = PLAN PLE) PLANTED PLWINA) P(61-4) =
  100 P(A 78 E TW 4) = PETB) PET PLATTEE) PLANIA) PLAIA)
                   = (1-01) x cos x to | x (1-03) x b.4 = 0.00036
```

(PLA TB. E W 761) = PLTB) PLE) PLA TB E) PLW (A) PLTGIA) = 1101) x at x 01 x08x (104) = 0.00216 (PLTA TBE W 761) = PLTB) PLET PLTATIBE) PLWITA) PLTG174) = (101) x 005 x 1 + 0.17 x 0 11 x (1-005) = 0 01539 (PIA B. TE, TW G) = PIB) PITE | PIA B. TE) PITWIA) PIG 14) = 0-1 × (1005) x0.8 x (1008) x 24 = 0 00634 (B PIABTE W761) = PIAIP(TE) PIAIB TE) PIWIA) PITOSIA) = 01 × (1-005) x09 x08 x 06 = 004 104 () PHA BTE -W. ()= PIA) PITE PUTAL B. TO) PITWITH PIATO = 0.1 x (1-00) x (1-09) x (1-04) x 005 = 0.000235 10 PITA B TE W TG) : PIBI PITE PLYA B. TE P(WITA) PLYG HU) = 01 × (1-005) × (+09) × 04 × (1-005) = 0,0036 (19 P(A. BE TW. 761) = P(B) xP(B) xP(A) BE) xP(TW(A) P(TG(A)) = 0 1 x 0.05 x 0 96 x (+08)x (1-04) = 0.00057. (PHA & E -W 76): P(B) P(E) P(-A) BE) P(-WI-A) P(-61-4) = 01 x001 x (1-0.91) x (1-06) x (1-001) = 0.000142] DO DIATE TWOOD PLAN PLED PLANTED PLANTA PHENDI = (+01) x 005 2 0.11 (+0.8) x 1+0.4) = 0.00054 EN PLA BIE TWIGH = PLB) PLAL PLA BIEL POWERS PEGLIA 1149000 = (10,01) x (10,01) x (10,01) = 0.000411 60 Pl A787 TW 761) = PHO PEED PLATME) PLOW A) PLATA) = 11-01) × 11005) X 0.05 × (103) × (104) EN PITA THE TW TEN = 12/08/1/201 P(TAINS E) P(TAINA) P(TOINA) =(Lo (1x0 of x (+01) × (+0,4) x(1-0, 15) 60 PLA 16 TE TW G) = PLABO PLAT PLATE TET PLAW A) PLETA

DIA 78.76 TWG) = PITE) P(78) P(8/78.76) PINWIND P(8/A)
= 11-005/2 (+01) x005 x (+02) x 0.4 = 000342

1 PIA -18-1E W 761) = PI-B) PIA(-18-15) PIWIA) PI-614)
= IF-011 + (1-005) × 0.05 + 0.3 × (1-04) = 0 00052

(8) P(A.B. 76 TW 761) = P(B) P(G) P(A) TE.B) P(TW(A) P(T6)(A)
= 0 1 x (FOOT) x 0.9 x (FOO) x (FOO) = 0.0(0)6

DE PLABE WAGO) = PLENTIED PLATE BY PLWIA) PLAGIA)

= 0 1x0 01 x 091 x 08 x (1-04) = 0 00228

30 PLABEW 761) = PLB1 PLE1 PLTATEB) PLWHAI PLAG 1741

= 0/x00+ (+098) + 04 + (+001) = 0 000098

(50 PLOATE W 761) = PLANTPLIED PLOATED PLOTON = 0.30365

(30 PLATE TO TE TWO (6) = PETENPETED PLATE TE) PHUHAD PLAGITA)

= 11-11) x (+0 05) x (1-0.05) x (+0 4) x (+0 4) = 0.462885