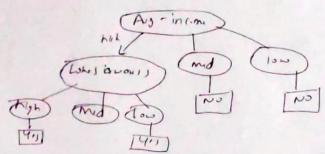
```
Monish B. Shriyan
                              Assignment -3
                                                            4AL16(5131
1 Decision tree for new stone option.
 onsiding by tire as big:
                          .: Cit-size : Big > yes.
     City size
                  Decision
                                   2/3 is count 21/3 is empr.
                   405
      Big
                    405
                   No
       BJ
   Considers city- 510 as Med
                       Decision
                               :. cif-lia : Mid - No
      coty lis
                       NO
                                       4/8 is loved 2 1/5 is enor
         Mid
                      70
         mid
         med
                      NO
        med
                      NO
         mid
   landing city six as small
                  Decision
       City - 1, 20
                             : aty siu: smell - > No
                    NO
        Small.
                               3/4 is would ally is enor.
                    NO
        Small
                    401
        Small
        Small
                                  total enon
                           Chor
    Attribute ruls:
              Big -> 405 1/3
      City-Sile
                                      3/12
                md ) No 1/5
                 5m.11 3Ns
                           1/4
-) (on deving
               Aug income as high
                    Deusian
                                  is Any income : High o yes
       Aug · injume
                                       4/6 is comet 2 2/6 is enou.
                    4,
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        High
                    401
        Mish
                    40
        High
                    No
        High
                    41)
                   No
        High
   Northday Aug income as Mad
                        Decision
       Aug in comy
                        No
         med
                                   . Any - incom : med & No
                        Nb
        MID
                        Wo
                                      5/5 is lorred, DIs is error.
        mid
                        No
         Mid
                        No
        Med
```

Ag Income Decision : Aug incom: Low s No low No 1 is word, o is enor. Attitute Rubs enor total enors Aug-income High squ alla 1/10 MdoNo of Lou -5 No 0/1 -1 funtides facel investors as yes local in on two Derision. · : bid - invitions: 41) -> No Yas N. No 4/0 is wrech, do is error 401 40 401 No 40 NO Considering local inventors as No. Decision . i. local - invistas : No -> No loca I huston No 4/6 ic word, 2/6 is enor. Yes 000 No No NO Yes No NO NO total enois. Attille rule error 4/12 local-inventor Yest No 216 NO-3NO 216 (-nidery LOND) AWAYNII as High Lohal avains Decisiona 4+1 High . Loha com : High - 40 High MO High 3/5 is lund, 2/5 is prov. High 4,1 High No o lonsiding Lahel arenis 01 100 Decision Lougs asous .: Lotter awards : low of No No 20 Low 1/2 is count, Ois emon 120 enor total over rulen Aftri bate 3/12 Lohis owners 215 high -1711 Mid -1 No 1/1 100 -1NO 0/5

(Not) and (low)

ovg income or high -> Now rando Au,

Aug Inhom high high Nigh High High	Dis Mid Mid Mid Sm. II mid	local - invelor 401 400 400 400 No	night high mid	Des
AHribis	Bish - 141, Bish - 141, Bind - 140 Small - 140	0/2 1/3 9/1	tota 1 176	
local- locals	481 -> 411 No -> 411 Hick -> 411 Med > 413 Smell -> No	43 43 66 16	46 40 v	



-) lonsides Long - avonin as the next not &

	hi hit had a mid.				
Loho - Orwanis	City-sia	loal	in ris has	Decki	
mi d	med	4"1		Platin,	
mid	mid				
AHMOL	nobo	enve	total		
city - 3170	md > 40	1/4	1/2		
local instar	114-114	0/1	96 (

0/1

(John - owent) and (John Col) 西 中 Ro vity ou ango income local simultar lotes across decin med No med No drifter is No. Stop 1: the contained of and on will be het 2 volus (24) as el 6(4,6). Ed: (Ms-x) + (45-40) Hope to calculate EP bla Rs & Control of clother (14 W Step3: Ed La Radii: J(5-48 +(6-6)2 = J34+24 = Ji3 = 3.605 Ed for R3 & 6 = V (1-2) 2 (6-6) = 3 Rs belon to chate co of the distance is less. .: control will be. (1 = (2.0) & (d = [542, 646] = (3-516). ED for RyO C1 = J(4-1)x + (4-4)x = 3.605 EB Br Rad (2 = V (4-31) + (7-6) = 1.118 : Controld will be (1: (2,4) a (d = 6-75, 6.5) ED for Pro (1= 5(8-2×+ (3-4) = 6.0827. 10 for Pr d H= \((8.231)\(\frac{1}{4}(3.68)^2 = \frac{5.5056}{5.5056} -: Controld will be (1= (2.4) 0 (d= (5875, 4.75) ED for R64 (1 = \((6-2)^2 + (6-4)^2 = 4.4721 ED for R6 to (d = \((6-4.78) = 1.2567 ·: (entrad vely is (1= (2,4) & (d= (615-1015, 6-14-75)= (5-594,53) FD for R7 & C1 = J(1=2) + (2-4) = 3.601 EDT for 1270 W: [(-5.892)] + (2-5.395) = 3.491 : antend C1 = (2.4) a (a = (5.466, 3.687)

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ED Rx 129 9 21 = 2 (1-9) + (2-4) = 4.943
     50 for PBd (= = \(\frac{1}{2} - \frac{1}{2} 
         " and we (2.4) 4 to (5 223, 5.227)
      ED for R4 a CA = \( (6-2)^2 + (3-34)^2 = 4.123

ED for R4 a CA = \( (6-2)^2 + (3-34)^2 = 2.463
               : antend = (1= (2.4) ( (a = (5.611, 4.171)
       10 to 810 0 (1: V(4-2)x+(4-6)x = 3
      ED for Pio a (a = \( (4-4171) = 1.17
             : (1= (2,4) d (d= (6.505,4.031).
                   (1=[1] (d = [23,4,5,6,2,7,9,9,10]
(3) 5 = 33.34% (= 60%
                        Truncha JD
                                                                               Hotdoss, Buns, Kth-p
                                      TI
                                     Ta
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                                                                             Holdog, (ske, Chips
                                      74
                                                                             chipi, whe
                                      75
                                                                              chips , kithep
                                                                              Hotos, , coke chips.
           4 - item set
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                                                                   Freq
                440091
                                                                                                                          66.6%
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                                                                                                                       33.31%
               Kitchup
                                                                                                                       33 . 33 ./.
                 (oke
                                                                                                                       50%. ~
               chip,
                                                                                                                          66.66%.
           2 - item set
                                                                         frig.
                                                                                                                       S-pport freq.
              Holdog, loki
                                                                                                                                    33.33.1.
              Holdey, Chips
                                                                                                                                    33. 37.1.
```

50%.

Coke, chips

Ru generated is Suppord (+ fianc (oh -1 ct.ps = 3/3 = 100%. 3/6:50%. 316 = 50 % Chips - side - 3/4 = 75%. (S = 50 % C= 70%. idens Buad when, egg ; 14. Bued chese, juice. Bued, milk, yogust Brad juia, milk. this you , milk. 1 - item sel frz. S-pp-1 fing. 80%. Bued 6.7. Chese 201,X 239 301/20 1016 milli 601.6 709016 do% ~ Support - freg 2 item set 40 % Bud-chex 60 % L Bred, juice 40 1 Buad, milk. 601. (how, jola do 1 Chris , m. 1h jula , milk 401 3 - item set freq Support - freg Burd, jue then 40 %. ×

No 3-item sit will generate roil, hence.

Bund = juic = 79%. 5-pp at 60%.

Ruli 2 = (Chen, Jula)

Then I jula 3/3 = 100%. Support

500%.

Jula I chen 3/4 = 75%. 60%.

(1) The probability of don't is p(s) = 4/7 = P(k) probability of good is p(2) = 4/2 = p(-h) No of worlds in start an 17 No of wids in quit an 19 urique with on 27 No of dela = 137 No of doss = 2 for clos 'h' ston! .. of = 1 d: 22 p (whit / nh) = (3+1) - 3/40 R(thel /n) = 0+1 = 14 = 39 P(15/NL) = 2/40 P(is/h) = === P(+h. (+h) = 3/40 P (+1/4) = == p (priv lah) = to P (pru/h): 1/39 P(Of (ah) = /40 b (of (4) = 1/39 P(pwk/ch) = 3/w P(Nox/h) = 3/39 P (b. dula/h) = 4/7 × 1/39 × 3/30 + (2/39) × 1/30 × 1/30 × 1/30 × 3/35= 1.497036455 € - 6.000000000014 p (tot date (= h) = 4/2 x 3/40+ 2/40 x (3/40) x /40 + 3/40 .: the find date " what is the prival Book belon to the class quiting. (6)

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.: Higher vent velow is 0:29 of the