Qiuz 6

P(C;): buys _ computer = 'yes' -> 9/11 = 0.143 buys_ computer = (no) -> 5/11 = 0.557

P(x1Ci) P (age = " 31 ... 40" | buy _ computer = "yes") = 1/9 = 0.11 +1

P (age = " o1 ... 40 " | buy _ computer = " no") = " no") = 0/5 = 0 -> 1/5 = 0.2

P (income = "high" | buy computer = "yes") = 2/9 = 0.22

P(income = "high"|buy_computer = "no") = 2/5 = 0.1 P(std = "yes " | buy _ conputer = "yes") = 6/9 = 0.67

P(std = "yes " | buy _ computer = " no ") = 1/5 = 0.2

P (Cradit = "fiar " | buy = computer = "yes") = 6/9 = 0.69

P (Cradit: "fiar" | buy - computer = "no") = 2/5 = 0.4

P(x1C;): P(x|buys = computer = "yes") = 1.40 x 0.22 x 0.29 x 0.29 = 0.142 P(x lbuys_computer = "no") =0.2 × 0.4 × 0.2 × 0.4 = 0.0064

P(x(cj)*P(cj): P(x1buys_conputer = "yes")*P(buys_conputer = "xes") = 0.102 x 0.610 = 0.091 P(x|buys_computer = "no") * P(buys_computer = "no") = 0.0011 x 0.357 = 0.002

| ag | e income | student | credit_rating | buys_computer |
|------|-----------|---------|---------------|---------------|
| <=30 |) high | no | fair | no |
| <=30 |) high | no | excellent | no |
| 31 | 40 high | no | fair | yes |
| >40 | medium | no | fair | yes |
| >40 | low | yes | fair | yes |
| >40 | low | yes | excellent | no |
| 31 | 40 low | yes | excellent | yes |
| <=30 |) medium | no | fair | no |
| <=30 |) low | yes | fair | yes |
| >40 | medium | yes | fair | yes |
| <=30 |) medium | yes | excellent | yes |
| 31 | 40 medium | no | excellent | yes |
| 31 | 40 high | yes | fair | yes |
| >40 | medium | no | excellent | no |