**CHI-SQUARE TEST**

1. **Leadership personality traits with respect to gender**

H0: The personality traits of leadership are independent of gender

V/S

H1: The personality traits of leadership are not independent of gender

|  |  |  |
| --- | --- | --- |
|  | Gender | |
|  | **1** | **2** |
| **Leadership quality** | 38 | 49 |
| **Dutifulness** | 34 | 45 |
| **orderliness** | 35 | 37 |
| **self esteem** | 46 | 40 |
| **Achievement striving** | 37 | 45 |
| **activity level** | 28 | 30 |
| **self discipline** | 21 | 21 |
| **liberalism** | 31 | 24 |

**R-commands**

**>x=scan("clipboard")**

**Read 16 items**

**> m=matrix(x,byrow=T,ncol=2)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

data: m

**X-squared** = 4.357, **df =** 7, **p-value** = 0.7379

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of leadership are independent of gender .

1. **Leadership personality traits with respect to Age group**

H0: The personality traits of leadership are independent of age group

V/S

H1: The personality traits of leadership are not independent of age group

|  |  |  |  |
| --- | --- | --- | --- |
|  | Age | | |
|  | **1** | **2** | **3** |
| **Leadership quality** | 41 | 43 | 3 |
| **Dutifulness** | 40 | 37 | 2 |
| **orderliness** | 40 | 29 | 3 |
| **self esteem** | 34 | 49 | 3 |
| **Achievement striving** | 34 | 43 | 5 |
| **activity level** | 28 | 26 | 4 |
| **self discipline** | 17 | 24 | 1 |
| **liberalism** | 23 | 31 | 1 |

**R-commands**

**> x=scan("clipboard")**

**Read 24 items**

**> m=matrix(x,byrow=T,ncol=3)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 10.815, df = 14, p-value = 0.7005**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Reject Ho at 5% l.o.s

**Conclusion:** The personality traits of leadership are independent of age group

1. **Leadership personality traits with respect to Annual family income**

H0: The personality traits of leadership are independent of Annual family income

V/S

H1: The personality traits of leadership are not independent of Annual family income

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Annual Income** | |  |  |
|  | **1** | **2** | **3** | **4** |
| **Leadership quality** | 29 | 28 | 20 | 10 |
| **Dutifulness** | 23 | 17 | 20 | 19 |
| **orderliness** | 24 | 19 | 19 | 10 |
| **self esteem** | 31 | 19 | 21 | 15 |
| **Achievement striving** | 28 | 21 | 23 | 10 |
| **activity level** | 17 | 14 | 14 | 13 |
| **self discipline** | 17 | 11 | 10 | 4 |
| **liberalism** | 16 | 13 | 13 | 13 |

**R-commands**

**> x=scan("clipboard")**

**Read 32 items**

**> m=matrix(x,byrow=T,ncol=4)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 14.327, df = 21, p-value = 0.8552**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of leadership are independent of annual family income

1. **Leadership personality traits with respect to faculties of MSU**

H0: The personality traits of leadership are independent of faculties of MSU

V/S

H1: The personality traits of leadership are not independent of faculties of MSU

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Arts | Commerce | Fine arts | Law | Medicine | Science | Social work | Technology & Engineering |
| Leadership quality | 8 | 11 | 11 | 9 | 10 | 18 | 10 | 10 |
| Dutifulness | 4 | 6 | 9 | 8 | 14 | 18 | 9 | 11 |
| orderliness | 12 | 14 | 5 | 6 | 11 | 12 | 7 | 5 |
| self esteem | 14 | 8 | 11 | 8 | 10 | 13 | 9 | 13 |
| Achievement striving | 8 | 10 | 11 | 12 | 13 | 5 | 14 | 9 |
| activity level | 3 | 5 | 10 | 9 | 6 | 7 | 10 | 8 |
| self discipline | 8 | 2 | 6 | 4 | 7 | 2 | 8 | 5 |
| liberalism | 10 | 7 | 6 | 2 | 6 | 11 | 9 | 4 |

**R-commands**

**> x=scan("clipboard")**

**Read 64 items**

**> m=matrix(x,byrow=T,ncol=8)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 53.932, df = 49, p-value = 0.2914**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of leadership are independent of faculties of MSU

1. **Leadership personality traits with respect to No. of family members**

H0: The personality traits of leadership are independent of no of family members

V/S

H1: The personality traits of leadership are not independent of no of family members

|  |  |  |
| --- | --- | --- |
|  | **No. of family members** | |
|  | **1 to 4** | **5 and above** |
| **Leadership quality** | 50 | 37 |
| **Dutifulness** | 51 | 28 |
| **orderliness** | 45 | 27 |
| **self esteem** | 52 | 34 |
| **Achievement striving** | 52 | 33 |
| **activity level** | 40 | 18 |
| **self discipline** | 29 | 13 |
| **liberalism** | 33 | 22 |

**R-commands**

**> x=scan("clipboard")**

**Read 16 items**

**> m=matrix(x,byrow=T,ncol=2)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 3.2412, df = 7, p-value = 0.8618**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of leadership are independent of no of family members

1. **Leadership personality traits with respect to Education qualification**

H0: The personality traits of leadership are independent of education qualification

V/S

H1: The personality traits of leadership are not independent of education qualification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Educational Qualifications** | | |  |
|  | **1** | **2** | **3** | **4** |
| **Leadership quality** | 44 | 12 | 13 | 18 |
| **Dutifulness** | 37 | 9 | 11 | 22 |
| **orderliness** | 43 | 7 | 7 | 15 |
| **self esteem** | 44 | 12 | 9 | 21 |
| **Achievement striving** | 41 | 11 | 9 | 21 |
| **activity level** | 35 | 7 | 5 | 10 |
| **self discipline** | 21 | 6 | 6 | 9 |
| **liberalism** | 32 | 5 | 9 | 9 |

**R-commands**

**> x=scan("clipboard")**

**Read 32 items**

**> m=matrix(x,byrow=T,ncol=4)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 10.189, df = 21, p-value = 0.9764**

**Decision Rule:** As p-value <Level of significance, then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:**  The personality traits of leadership are independent of education qualification.

1. **Debater personality traits with respect to Age Group**

H0: Personality traits of debater are independent of Age group

V/S

H1: Personality traits of debater are dependent of Age group

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Age** | | |
| **Traits** | **1** | **2** | **3** |
| **Artistic interest** | 12 | 9 | 1 |
| **Imagination** | 10 | 5 | 4 |
| **Modesty** | 11 | 11 | 0 |
| **Co–operations** | 79 | 84 | 7 |
| **Anger hostility** | 62 | 50 | 4 |
| **Self-cautions** | 57 | 52 | 8 |
| **Assertiveness** | 83 | 70 | 6 |

R-commands

> x=scan("clipboard")

Read 21 items

> m=matrix(x,byrow=T,ncol=3)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 17.029, df = 12, p-value = 0.1485

**Decision Rule:** If p-value < Level of significance, then reject Ho.

**Level of significance**: 0.05

**Decision:** Accept Ho At 5% l.o.s.

**Conclusion :** Personality traits of debater are independent of Age

1. **Debater personality traits with respect to Gender**

H0: Personality traits of debater are independent of Gender

V/S

H1: Personality traits of debater are dependent of Gender

|  |  |  |
| --- | --- | --- |
|  | **Gender** | |
| **Traits** | **1** | **2** |
| **Artistic interest** | 9 | 13 |
| **Imagination** | 8 | 11 |
| **Modesty** | 17 | 5 |
| **Co–operations** | 72 | 98 |
| **Anger hostility** | 57 | 59 |
| **Self-cautions** | 61 | 56 |
| **Assertiveness** | 47 | 64 |

R-commands

> m=matrix(x,byrow=T,ncol=2)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 12.498, df = 6, p-value = 0.05175

**Decision Rule:** If p-value < Level of significance, then reject Ho.

**Level of significance**: 0.05

**Decision:** Accept Ho At 5% l.o.s.

**Conclusion :** Personality traits of debater are independent of Gender

1. **Debater personality traits with respect to Educational Qualification**

H0: Personality traits of debater are independent of Educational Qualification

V/S

H1: Personality traits of debater are dependent of Educational Qualification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Educational Qualification** | | | |
| **Traits** | **1** | **2** | **3** | **4** |
| **Artistic interest** | 14 | 3 | 2 | 3 |
| **Imagination** | 11 | 0 | 4 | 4 |
| **Modesty** | 16 | 1 | 2 | 3 |
| **Co–operations** | 94 | 17 | 23 | 36 |
| **Anger hostility** | 60 | 15 | 12 | 29 |
| **Self-cautions** | 63 | 13 | 15 | 26 |
| **Assertiveness** | 56 | 15 | 14 | 26 |

R-commands

> x=scan("clipboard")

Read 28 items

> m=matrix(x,byrow=T,ncol=4)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 10.605, df = 18, p-value = 0.9104

**Decision Rule:** If p-value < Level of significance, then reject Ho.

**Level of significance**: 0.05

**Decision:** Accept Ho At 5% l.o.s.

**Conclusion :** Personality traits of debater are independent of Educational Qualification

1. **Debater personality traits with respect to Annual family income**

H0: Personality traits of debater are independent of Annual family income

V/S

H1: Personality traits of debater are dependent of Annual family income

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Income per annum** | | | |
| **Traits** | **1** | **2** | **3** | **4** |
| **Artistic interest** | 5 | 9 | 7 | 1 |
| **Imagination** | 8 | 7 | 3 | 1 |
| **Modesty** | 10 | 9 | 2 | 1 |
| **Co–operations** | 55 | 45 | 43 | 27 |
| **Anger hostility** | 40 | 35 | 29 | 12 |
| **Self-cautions** | 44 | 30 | 31 | 12 |
| **Assertiveness** | 33 | 34 | 26 | 18 |

R-commands

> x=scan("clipboard")

Read 28 items

> m=matrix(x,byrow=T,ncol=4)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 16.955, df = 18, p-value = 0.5262

**Decision Rule:** If p-value < Level of significance, then reject Ho.

**Level of significance**: 0.05

**Decision:** Accept Ho At 5% l.o.s.

**Conclusion :** Personality traits of debater are independent of Annual family income

1. **Debater personality traits with respect to Annual Faculties of MSU**

H0: Personality traits of debater are independent of Faculties of MSU

V/S

H1: Personality traits of debater are dependent of Faculties of MSU

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Faculties Of MSU** | | | | | | | |
| **Traits** | **Science** | **Social work** | **Arts** | **Fine Arts** | **Law** | **Commerce** | **Medicine** | **Technology & Engineering** |
| **Artistic interest** | 1 | 4 | 4 | 2 | 1 | 2 | 2 | 3 |
| **Imagination** | 2 | 0 | 4 | 1 | 4 | 3 | 1 | 4 |
| **Modesty** | 1 | 1 | 7 | 1 | 2 | 4 | 2 | 4 |
| **Co–operations** | 26 | 20 | 25 | 16 | 19 | 19 | 25 | 20 |
| **Anger hostility** | 14 | 14 | 13 | 13 | 11 | 17 | 16 | 18 |
| **Self-cautions** | 18 | 11 | 17 | 11 | 10 | 20 | 16 | 14 |
| **Assertiveness** | 12 | 9 | 13 | 12 | 16 | 14 | 20 | 13 |

R-commands

> x=scan("clipboard")

Read 56 items

> m=matrix(x,byrow=T,ncol=8)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 30.75, df = 42, p-value = 0.9004

**Decision Rule:** If p-value < Level of significance, then reject Ho.

**Level of significance**: 0.05

**Decision:** Accept Ho At 5% l.o.s.

**Conclusion :** Personality traits of debater are independent of Faculties of MSU

1. **Debater personality traits with respect to No. of Family Members**

H0: Personality traits of debater are independent of No. of Family Members

V/S

H1: Personality traits of debater are dependent of No. of Family Members

|  |  |  |
| --- | --- | --- |
|  | **No. of Family Members** | |
| **Traits** | 1 | 2 |
| **Artistic interest** | 9 | 13 |
| **Imagination** | 10 | 9 |
| **Modesty** | 17 | 5 |
| **Co–operations** | 100 | 70 |
| **Anger hostility** | 69 | 47 |
| **Self-cautions** | 65 | 52 |
| **Assertiveness** | 64 | 47 |

**R-commands**

> x=scan("clipboard")

Read 14 items

> m=matrix(x,byrow=T,ncol=2)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 6.6536, df = 6, p-value = 0.3541

**Decision Rule:** If p-value < Level of significance, then reject Ho.

**Level of significance**: 0.05

**Decision:** Accept Ho At 5% l.o.s.

**Conclusion :** Personality traits of debater are independent of No. of Family Members

1. **Employment personality traits with respect to gender**

H0: The personality traits of employment are independent of gender

V/S

H1: The personality traits of employment are not independent of gender

|  |  |  |
| --- | --- | --- |
|  | Gender | |
| Traits | Male | female |
| positive emotions | 66 | 88 |
| Dutifulness | 102 | 118 |
| self esteem | 105 | 139 |
| Achievement striving | 97 | 97 |
| Activity level | 95 | 102 |
| self discipline | 98 | 118 |
| warmth | 65 | 78 |
| Honesty | 117 | 152 |
| Co operation | 72 | 98 |

**R-commands**

**> x=scan("clipboard")**

**Read 18 items**

**> m=matrix(x,byrow=T,ncol=2)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 4.3339, df = 8, p-value = 0.825**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of employment are independent of gender .

1. **Employment personality traits with respect to Age Group**

H0: The personality traits of employment are independent of age group

V/S

H1: The personality traits of employment are not independent of age group

|  |  |  |  |
| --- | --- | --- | --- |
|  | Age | | |
| Traits | 17-21 | 21-24 | 24- above |
| positive emotions | 26 | 30 | 4 |
| Dutifulness | 15 | 24 | 3 |
| self esteem | 15 | 24 | 3 |
| Achievement striving | 8 | 15 | 3 |
| Activity level | 94 | 94 | 9 |
| self discipline | 105 | 99 | 12 |
| warmth | 65 | 73 | 5 |
| Honesty | 136 | 120 | 13 |
| Co operation | 79 | 84 | 7 |

**R-commands**

**> x=scan("clipboard")**

**Read 27 items**

**> m=matrix(m,byrow=T,ncol=3)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 35.043, df = 10, p-value = 0.0001228**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Reject Ho at 5% l.o.s **Conclusion:** The personality traits of employment are not independent of age group

**15)Employment personality traits with respect to Annual family income**

H0: The personality traits of employment are independent of annual family income

V/S

H1: The personality traits of employment are not independent of annual family income

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | upto 2.5 lakhs | 2.5-5 lakhs | 5-10 lakhs | Above 10 lakhs |
| Traits |  |  |  |  |
| positive emotions | 41 | 43 | 38 | 27 |
| Dutifulness | 68 | 70 | 53 | 29 |
| self esteem | 78 | 70 | 63 | 33 |
| Achievement striving | 62 | 55 | 52 | 25 |
| Activity level | 63 | 53 | 50 | 31 |
| self discipline | 70 | 59 | 56 | 31 |
| warmth | 46 | 39 | 33 | 25 |
| Honesty | 55 | 82 | 70 | 36 |
| Co operation | 55 | 45 | 43 | 27 |

**R-commands**

**> x=scan("clipboard")**

**Read 36 items**

**> m=matrix(x,byrow=T,ncol=4)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 14.803, df = 24, p-value = 0.9264**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of employment are independent of annual family income

1. **Employment personality traits with respect to faculties of MSU**

H0: The personality traits of employment are independent faculties of MSU

V/S

H1: The personality traits of employment are not independent of faculties of MSU

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Traits | Science | Social work | Arts | Fine Arts | Law | Commerce | Medicine | Technology & Engineering |
| positive emotions | 17 | 18 | 21 | 17 | 23 | 16 | 19 | 40 |
| Dutifulness | 10 | 23 | 25 | 25 | 28 | 31 | 30 | 23 |
| self esteem | 36 | 26 | 26 | 30 | 28 | 35 | 28 | 28 |
| Achievement striving | 27 | 24 | 27 | 20 | 24 | 27 | 28 | 19 |
| Activity level | 29 | 24 | 24 | 19 | 24 | 28 | 22 | 27 |
| self discipline | 27 | 23 | 29 | 23 | 23 | 33 | 33 | 25 |
| warmth | 22 | 14 | 21 | 14 | 17 | 13 | 24 | 18 |
| Honesty | 36 | 34 | 35 | 32 | 30 | 30 | 38 | 28 |
| Co operation | 26 | 20 | 42 | 16 | 19 | 19 | 25 | 20 |

**R-commands**

**> x=scan("clipboard")**

**Read 72 items**

**> m=matrix(x,byrow=T,ncol=8)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 63.903, df = 56, p-value = 0.2187**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of employment are independent of faculties of MSU

1. **Employment personality traits with respect to no. of family members**

H0: The personality traits of employment are independent of no. of family members

V/S

H1: The personality traits of employment are not independent of no. of family members

|  |  |  |
| --- | --- | --- |
| Traits | 1 | 2 |
| positive emotions | 97 | 90 |
| Dutifulness | 129 | 139 |
| self esteem | 153 | 160 |
| Achievement striving | 121 | 127 |
| Activity level | 123 | 133 |
| self discipline | 137 | 144 |
| warmth | 83 | 87 |
| Honesty | 161 | 171 |
| Co operation | 99 | 105 |

**R-commands**

**> x=scan("clipboard")**

**Read 18 items**

**> m=matrix(x,byrow=T,ncol=2)**

**> chisq.test(m,correct=T)**

**Pearson's Chi-squared test**

**data: m**

**X-squared = 0.83066, df = 8, p-value = 0.9991**

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:** The personality traits of employment are independent of no of family members

1. **Employment personality traits with respect to Education qualification**

H0: The personality traits of employment are independent of education qualification

V/S

H1: The personality traits of employment are not independent of education qualification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Traits | Under graduate | Graduate | Post graduate | Others |
| positive emotions | 81 | 17 | 17 | 34 |
| Dutifulness | 129 | 32 | 29 | 45 |
| self esteem | 138 | 32 | 24 | 52 |
| Achievement striving | 110 | 20 | 20 | 44 |
| Activity level | 104 | 53 | 27 | 42 |
| self discipline | 116 | 25 | 29 | 49 |
| warmth | 76 | 11 | 16 | 40 |
| Honesty | 142 | 35 | 33 | 59 |
| Co operation | 94 | 17 | 23 | 36 |

**R-commands**

> x=scan("clipboard")

Read 36 items

> m=matrix(x,byrow=T,ncol=4)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 35.103, df = 24, p-value = 0.06688

**Decision Rule:** As p-value <Level of significance , then reject Ho.

**Level of significance:**0.05

**Decision:** Do not reject Ho at 5% l.o.s

**Conclusion:**  The personality traits of employment are independent of education qualification.

1. **Entrepreneurship personality traits with respect to Age group**

**Ho**: Personality traits of Entrepreneurship are independent of age

V/S

**H1**: Personality traits of Entrepreneurship are not independent of age.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Age** | | |
| **Traits** | 17-21 | 21-24 | 24- above |
| positive emotions | 133 | 65 | 10 |
| Modesty | 79 | 132 | 11 |
| co-operations | 39 | 84 | 7 |
| Intellectual interest | 72 | 123 | 13 |
| Gregariousness | 88 | 83 | 6 |

**R-commands**

> x=scan("clipboard")

> m=matrix(x,byrow=T,ncol=3)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 62.309, df = 8, p-value = 0.0000000001639

**Decision Rule**: If p-value<level of Significance, then Reject Ho.

**Level of Significance**: 0.05

**Decision**: Reject Ho at 5% level of significance

**Conclusion**: Personality Traits of Entrepreneurship are not independent of their age.

1. **Entrepreneurship personality traits with respect to Gender**
2. **Entrepreneurship personality traits with respect to Annual family income**

**Ho**: Personality traits of Entrepreneurship are independent of gender.

V/S

**H1**: Personality traits of Entrepreneurship are not independent of gender.

|  |  |  |
| --- | --- | --- |
| **Entrepreneur Traits** | **Male** | **female** |
| positive emotions | 66 | 46 |
| Modesty | 122 | 96 |
| co-operations | 72 | 98 |
| Intellectual interest | 128 | 79 |
| Gregariousness | 83 | 55 |

**R-commands**

> x=scan("clipboard")

> m=matrix(x, byrow=T, ncol=3)

> chisq.test(m, correct=T)

Pearson's Chi-squared test

data: m

X-squared = 17.018, df = 4, p-value = 0.001917

**Decision Rule**: If p-value<level of Significance, then Reject Ho.

**Level of Significance**: 0.05

**Decision**: Reject Ho at 5% level of significance

**Conclusion**: Personality Traits Of Entrepreneurship are not independent of Gender.

1. **Entrepreneurship personality traits with respect to Annual family income**

**Ho**: Personality traits of Entrepreneurship are independent of annual family income

V/S

**H1**: Personality traits of Entrepreneurship are not independent of annual family Income.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Family Income** | | | |
| **Traits** | upto 2.5 lakhs | 2.5-5 lakhs | 5-10 lakhs | Above 10 lakhs |
| positive emotions | 41 | 43 | 38 | 27 |
| Modesty | 82 | 83 | 81 | 43 |
| co-operations | 55 | 45 | 43 | 27 |
| Intellectual interest | 81 | 81 | 73 | 40 |
| Gregariousness | 49 | 50 | 50 | 28 |

**R-commands**

> x=scan("clipboard")

> m=matrix(x,byrow=T,ncol=4)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 2.7377, df = 12, p-value = 0.9971

**Decision Rule**: If p-value<level of Significance, then Reject Ho.

**Level of Significance**: 0.05

**Decision**: Do not reject Ho at 5% level of significance

**Conclusion**: Personality Traits Of Entrepreneurship are independent of Family income.

1. **Entrepreneurship personality traits with respect to faculties of MSU**.

**Ho**: Personality traits of Entrepreneurship are independent of faculties of MSU.

V/S

**H1**: Personality traits of Entrepreneurship are not independent of faculties of MSU.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Faculties of MSU** | | | | | | | |
| **Traits** | Science | Social work | Arts | Fine Arts | Law | Commerce | Medicine | Technology & Engineering |
| positive emotions | 17 | 18 | 21 | 17 | 23 | 16 | 19 | 18 |
| Modesty | 41 | 35 | 32 | 38 | 34 | 39 | 39 | 31 |
| co-operations | 26 | 20 | 25 | 16 | 19 | 19 | 25 | 20 |
| Intellectual interest | 40 | 31 | 34 | 37 | 34 | 32 | 36 | 31 |
| Gregariousness | 24 | 26 | 18 | 17 | 17 | 31 | 19 | 25 |

**R-commands**

> x=scan("clipboard")

> m=matrix(x,byrow=T,ncol=8)

> chisq.test(m,correct=T)

Pearson's Chi-squared test

data: m

X-squared = 16.003, df = 28, p-value = 0.9658

**Decision Rule**: If p-value<level of Significance, then Reject Ho.

**Level of Significance**: 0.05

**Decision**: Do not reject Ho at 5% level of significance

**Conclusion**: Personality Traits of Entrepreneurship are independent of Faculties of MSU.

1. **Entrepreneurship personality traits with respect to of No. of Family members.**

**Ho**: Personality traits of Entrepreneurship are independent of No. of Family members.

V/S

**H1**: Personality traits of Entrepreneurship are not independent of No. of Family members.

|  |  |  |
| --- | --- | --- |
|  | **No. of Family Members** | |
| **Traits** | **1-4** | **5 & above** |
| positive emotions | 97 | 52 |
| Modesty | 176 | 113 |
| co-operations | 99 | 71 |
| Intellectual interest | 170 | 105 |
| Gregariousness | 107 | 70 |

**R-commands**

> x=scan("clipboard")

> m=matrix (x, byrow=T, ncol=2)

> chisq.test (m, correct=T)

Pearson's Chi-squared test

data: m

X-squared = 1.681, df = 4, p-value = 0.7942

**Decision Rule**: If p-value<level of Significance, then Reject Ho.

**Level of Significance**: 0.05

**Decision**: Do not Reject Ho at 5% level of significance

**Conclusion**: Personality Traits of Entrepreneurship are independent of No. of Faculty members.

1. **Entrepreneurship personality traits with respect to Education Qualification** .

**Ho**: Personality traits of Entrepreneurship are independent of Education Qualification.

V/S

**H1**: Personality traits of Entrepreneurship are not independent of Education Qualification.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Traits** | **Under graduate** | **Graduate** | **Post graduate** | **Others** |
| positive emotions | 81 | 17 | 17 | 34 |
| Modesty | 152 | 38 | 34 | 65 |
| co-operations | 94 | 17 | 23 | 36 |
| Intellectual interest | 152 | 35 | 31 | 57 |
| Gregariousness | 89 | 24 | 23 | 41 |

**R-commands**

> x=scan("clipboard")

> m=matrix (x, byrow=T, ncol=4)

> chisq.test (m, correct=T)

Pearson's Chi-squared test

data: m

X-squared = 3.0125, df = 4, p-value = 0.9955

**Decision Rule**: If p-value<level of Significance, then Reject Ho.

**Level of Significance**: 0.05

**Decision**: Do not reject Ho at 5% level of significance

**Conclusion**: Personality Traits of Entrepreneurship are independent of Education Qualification.