4- Palealote April Gracel - Total no if attributes Limitel Total norge for vechille is (4) 5 weight 4 Year lattribut, to UNIO. of door Corn is (6) is there is a court of 15 Wight L>truck-size 4 make brodel) Total no of Grear Brake Tattributes is (6) 4 Weigen Smodel Total no. of Stype of fonder Lykar attributes for 5 Weight Grame materice 1901) 5 Large-Capacity SNO. & Andes The independence anion states that the design should maintain the Lexing Time source of components melling each subclass should have attributes specific to it and not be influenced by estions subclass. Contain nomman attributes Bike - Type of bandle sa and frame material. Early , and doors 4 trunksige specific Truck - Cargo capacity and nort dan specific tach subclass has its own specific attributes in addition of inherting romm attributes from veclule class. Vuille : 4 attributes Bi Cattributes (4+2) with 22 attributes 1 : 6 attributes Truck : 6 attributes (4+2) Englistin to minimization in the To adhue to the information the information union content should be mi while maintaing the designs functionality briven the attributes are well-distrib $Z = \frac{X - \mu}{a}$ Task A: $Z_A = \frac{6 - 5}{1} = 1$, Task B = $\frac{12 - 10}{2} = 1$, Task C: $\frac{25 - 20}{3}$ b.) Through Principle Task C has the highest 2-score. Pe ulac 15 Tousk e is higher deviation suggest what the actual users dake to complete this is significantly longer strom enjuded. 1) The increased them may result is use frustruction or error, suggestion. neat for redusign or better user gurdance for take

```
of Home for less than to mins.
                                     2 score for less than 10 mins
  probability 2 0.587
                                        Protability 20 11587
   g score for less than 2 omins !
   2 = 20-25 = -1.67
  reday = 0.0475
To estimate the total effort required to compare complete the development and making associative phase of eye projects we need to break down down problem.
  1. Calculate total nog methods 2. Salulate total linis of wide
   Total Methods = 5x4=20
                                                               5. ) Calulate total effort
                              LOC = 20+25-500
 estimate developement:
                             4.) Estinate quality essurance affort
                                                                   = 700+140
  effort = Total Loc V14
                               = 020x76
                                                                    = 840 puror-hour
        - 700 person-hours - 140 person nours
 components:
 Mint Interface
                         4) Authentication Sovice
2) Fransaction manager 5-) Mortification Service.
3.) Account db
    ali :
Mint Interface 4) Brotherticon Service
1) Transaction manager 3.) Account db
Dotification service.
) Client Interface -> Transaction nomager
Hransaction Morrage -> Account db
) Tromsaction promager -) Authurtication Service
. Transaction manager > Notification Survice.
· iliment
Mint Server (Howest client interface and Transaction Monage)
 Data Losse Server (Horsist account db)
Authenotify Server (Horist Buthentheation)
medita
) (lintSirva -> DbSirver
) clust Server -> Authority Server.
it I ver : Hosts client Interfere and transaction manager Lompone
          Hosts account db component.
          Hosts the Authentication source and sunohipitation Service.
```

```
Dhibrary - Book (A didsary nonvites many boots)
    2) Library - Member (A library consider many member)
   1) Letrary - horn (A dibrary mage as many loves -
   Men (A book sambe lorded multiple times)
   b) member Loan (November loan can have multiple looms)
   Milstary - Book Library 1: BOOK: 0
   2) Library - member Library: 1 Member: 0
   3) hibrary - hoon library
                          : 1 Loan/ D
  4.) Book-Leson
                Book: 1 Loan 10
   5) member hoon: member: 1 Loon: 0
   1) Library and Book: Composition
                               1.) Library Mondon: Aggregation
   The library own books and
                                  The library holds members but membo,
  regransible for its life eyele
  3) history and boom i Aggregation
                                  independence of library.
                                  4.) Book and Loan: Association
  The library manage lan but lone
                                     About can be learned multiple
  independence of library life cycle
                                    sims and records simple reference
 5.) minder Loan : Association.
  Amender com have multiple looms
 Product Table:
                                      lustoma Table:
 Smoduted (don't springr ky)
                                     Glustoma ID (intophinary Rey)
 1) Name (Itzing)
                                    6- First Name (String)
 5 Duription (Stains)
                                    4) Low norme (String)
 4) Price (Ploat)
                                    4) Email ( Asing)
 Ly Quantity Stock (int)
                                    1) Purhe number (string)
Order Touble:
                                 4.) Order Item Table
bordered fint, trimary ky)
                                  Border Etim Ed (primay ky int)
Gorder Date (aute)
                                 Sorder Id (mit , forgin ky)
Glustomer Ed (int)
                                 15 Product Rd (int)
1) Total Amount (float)
                                () accordity : (int)
                                 Detempice (int)
bo)
1) Broduct Table: 5
                    2) lustomer Teuble: 5 3) Order Table: 4
4: ) Order Item: 5
                         Total = 19 Attributes.
1.) Product Table: 200 products 2) lustomer Table: 150 auxonus
4. Order Item Table: Total: No 00 15 = 7960, Total: 7500
```

hiven: Total no. of Lest method: no. of My no. of methods pur class: 1000 hours: 857 method no. of classes hug no. of methods pur class = 5000 hours: 857 method rownage. Test lake pur method to achieved 857. rownage hours: 0. 0. 0. defects pur method.

Expected no of affects pur method.

Expected no of affects: Total ho. of Methods x Befores pur method = 250

Effected no. of defects and fixed. = topacted no. of defects & DD 6

min: 6 supertied no. of defects before testing impacted number of defects

= 1750

Attential and fixed.