

## Visual Basic

- \* It is software
- \* It is application software
- \* It is package software
- \* Developed by Microsoft company

Vb develop மூலம் பிள்ளைகள் கட்டு  
language

### Basic

All  
Basic → beginners for purpose symbolic

Instruction code

⇒ It is GUI software  
GUI - Graphical user Interface

### use:-

- ⇒ Create the software
- ⇒ Create the small level animations.
- ⇒ Create the games.
- ⇒ Develop the Project.

### Advantages:-

- ⇒ It is non-case sensitive software
- ⇒ Automatic to correct the errors
- ⇒ It is event based programs

event : இதிலிருந்து என்ன போன்ற பால்டு  
ஒப்பாக்கியில் work.

⇒ mouse move  
⇒ key press  
⇒ click



## IDE tool:

\* Integrated Development Environment

- 1. form
- 2. code window
- 3. form layout window
- 4. object browser
- 5. object explorer
- 6. properties window
- 7. tools

## form:

- ⇒ program designing area called form how to take the form?
- ⇒ click the project menu
- ⇒ click the add form
- ⇒ add the number of forms.

## code window:

form design works together with program writing area

### way - 1 :

⇒ click the view menu

⇒ click the code

⇒ S. key = F7

Way - 2

⇒ right click on the form

⇒ click the View code

Way - 3

⇒ double click on the form

⇒ Show the code window

### Properties window:

control+o (common window)

⇒ To change the control

How can take the properties window?

⇒ Click the View menu

⇒ Click the Properties window

⇒ S.Key = f4

### Form layout window:

blue color form run (blue border)

add (blue) (red) (green) (yellow) (orange)

How can take the layout window?

⇒ Click the View menu

⇒ Click the Form layout window

### Project properties:

⇒ Show number of form will be open  
and number of form will be save and  
number of form not save to show how  
to take the Project properties.

⇒ Click the View menu

⇒ Click the Project Properties

way -2

⇒ right click on the form

⇒ click the View code

way -3

⇒ double click on the form

⇒ Show the code window

### Properties window:

control+o (commonly used)

⇒ To change the control

How can take the Properties window?

⇒ Click the View menu

⇒ Click the Properties window

⇒ S.Key = f4

### form layout window:

ctrl+o form run time

⇒ Click the Form Layout window

How can take the Layout window?

⇒ Click the View menu

⇒ Click the Form layout window

### Project properties:

⇒ Show number of form will be open  
and number of form will be save and  
number of form not save to show how  
to take the Project properties?

⇒ Click the View menu

⇒ Click the Project Properties

How can take the tool bar?  
⇒ click the view menu  
⇒ click the tool bar?

### object browser:

⇒ Show the control Details

How to take the object browser?

⇒ click the view menu

⇒ click the object browser

Notes: consider window - of object form - ~~is~~

cursor point Alt+Shift+Shift key

Press window selection.

### form properties:

Name:

⇒ to change the form name

Back color:

⇒ to change the form background color

Type:

palettes

System

### border style:

⇒ change the form border style

Total style = 6 (0 to 5)

o: none

1. Fixed single

2. Sizable

3. Fixed dialog

4. Fixed tool window

5. Sizable tool window

### Caption:

⇒ To change the form outer name

### Enable:

true - work the form (run time)

false - not work the form

### Font style:

⇒ change the text font style

⇒ select the any style

### ForeColor:

⇒ change the form inner color

ex: form Dot color.

### height:

⇒ change the form height

### icons:

⇒ change the form icons

how to set the icons?

⇒ open the computer icons.

⇒ place the cursor to 'Search box'

⇒ type \*.ico

⇒ press enter key

⇒ then select the any one icon

⇒ right click on the mouse

→ click the properties  
→ select the location  
→ then copy the location.

→ open the form

→ click the icon

→ a box will be appeared

→ press the `ctrl+V`

→ then icons are open

→ open the number of icons

→ select add wanted icons

mouse icon:

→ mouse icon set to icons' cursor  
pointed as cursor and controls  
→ run time will be change the  
pointer symbol

(Notes: same setting for icon for my)

visible:

true = show the form  
false = not show the form

window state:

1. normal

2. minimize

3. maximize

print the any one message:

`Print "message"`

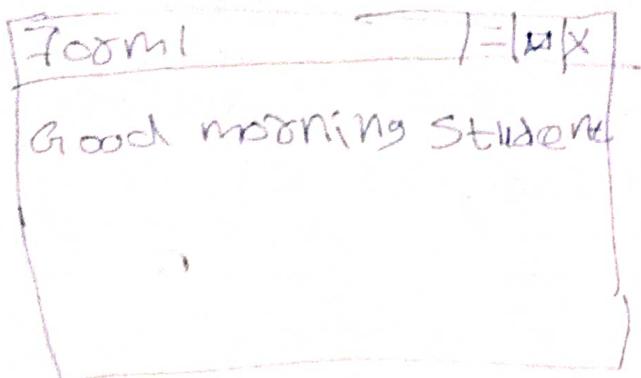
`Print "message" & nl`

Ex:Prog:

Private sub form\_click()

Print "Good morning Student"  
End sub

out put:



color:

- ⇒ Direct color
- ⇒ RGB color
- ⇒ RGB C6108

Direct color:

- |         |          |
|---------|----------|
| * red   | * yellow |
| * green | * black  |
| * blue  | * white  |

get  
Controlname.BackColor(0) -> color  
= vb color name

Ex:Prog:

Private sub form\_click()

form1.BackColor = vb Red  
form1.ForeColor = vb Green  
Print "hai student"

Font Part 2 (contd) = 15/2

green color font style

black color

Font Style

= bold = True/False

= italic = True/False

= underline = True/False

= font = "style name"

= font size = value <= 50

Ex:

color("orange", bold / italic) underline

= 184

color("brown", font = "size")

Ex part 3

private sub form1.click()

form1.font = "meta bold"

form1.FontSize = 46

form1.ForeColor = vb green

form1.BackColor = vb black

Print "HELLO world"

End Sub

private sub form1.click()

form1.Font Bold = true

form1.Font Underline = true

form1.Font Size = 46

form1.backcolor=vb black

form1.forecolor=vb white

print "Good Afternoon"

End Sub

Private sub form1\_KeyPress(<sup>K</sup>)

form1.backcolor=vb black

form1.FontUnderline=True

form1.fontSize =50

Print "Good Morning"

End Sub

Private sub form1\_Click()

form1.backcolor=vb red

form1.forecolor=vb white

Print "Good Morning"

Print "Good Afternoon"

Print "Good Evening"

End Sub

Private sub form1\_KeyPress(<sup>K</sup> As Integer)

Form1.backcolor=vb black As Integer

Print "Weekday Name"

Print "

Print "Sunday"

Print "Monday"

Print "Wednesday"

Print "Thursday"

Print "Friday"

Print "Saturday"

End sub

Ex

Private sub form\_click()

Form1.Font = "Vines Hand ITC"

Form1.FontSize = 20

Form1.ForeColor = True

Form1.BackColor = vb Red

Form1.ForeColor = vb yellow

Form1.Font Underline = True

Print "Month Name"

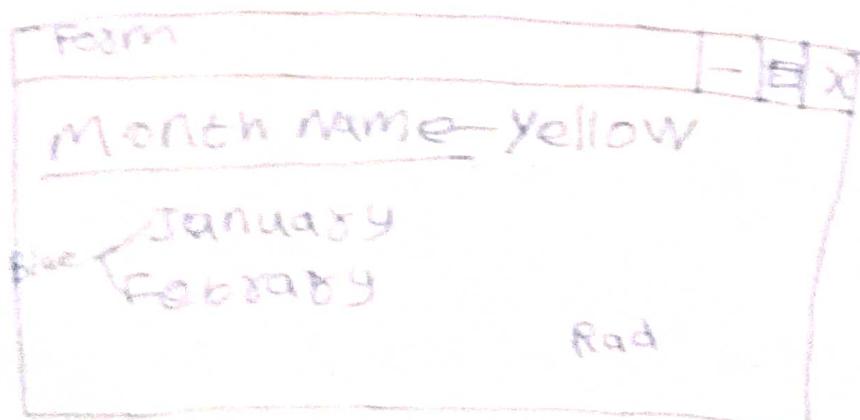
Form1.Font Underline = False

Form1.ForeColor = vb Blue

Print "January"

Print "February"

End sub



Name: Sakthi Sathya oldpavan

Father Name:

Mother Name: Swetha oldwhite Size = 50

Street Name:

North Street fine color

place:

: 70

phone number:

9845106245 0780123456789 - mix  
: 2008 oldpavan oldpavan

lab class

10th std ai wrote 32nd 32nd 7 >

Righteous NGM click)

fibonacci for = " fibonacci" -

form.font.color = black

form.font.size = 10

form.font.style = bold

form.font.color = black

form.font.color = red

form.font.color = blue

form.font.color = green

form.font.color = purple

form.font.color = pink

form.font.color = yellow

form.font.color = orange

form.font.color = teal

form.font.color = darkblue

form.font.color = darkred

print " place " = North Street

print " name " = oldpavan

print " number " = 9790112364

End sub

1.4.2019  
Monday

variable name:

variable എന്ന് (Story variable) കണക്കാക്കുന്നതിൽ

9f:

dim Varna; Varna es dataflow

## Variable declaration rules:

- first must start in letter
  - then use the number
  - not allowed the symbols, operators and keywords
  - only allowed for underscores  
symbols

## Data type:

156 உடற்பாடுகளில் Variable என்க  
இடைஞான தகவல் நிலை வரிசீலனை முறை  
மற்றும் பயன்பாடு

string - tettoys

~~integer~~ - whole numbers

Spoolen - yes / no

date - date and time

~~double~~ - pointer value

## Variable Declaration ex. in Program:

Dim na, g As String

Dim ag As Integer

Private Sub Form\_Click()

na = "P.Sowmya"

g = "Female"

ag = 16

Form1.BackColor = vbBlack

Form1.ForeColor = vbRed

Form1.FontBold = True

Form1.FontSize = 16

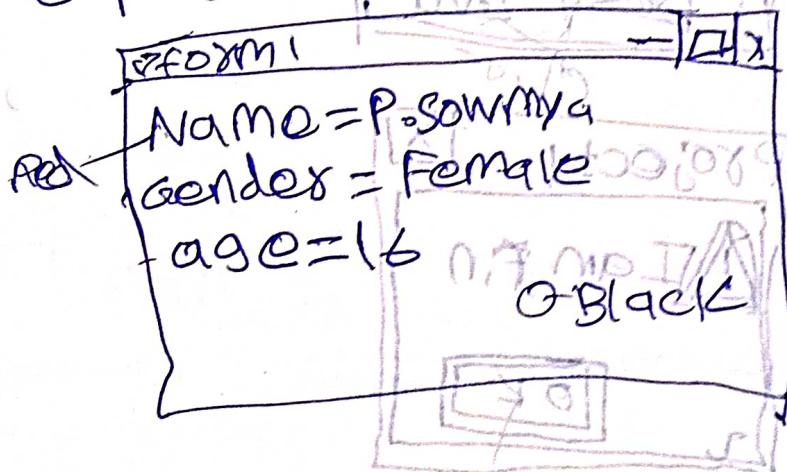
Print "Name = " & na

Print "Gender = " & g

Print "Age = " & ag

End Sub

at first



click

as

Message box: ~~is it a box~~ - ~~add icon~~

Print the any one message

gf:

msgbox("message"); buttons + symbols

examples - msgbox("message")

Private sub form\_load()

Msg.

MSG BOX "hai", vbOKcancel + vbInformation

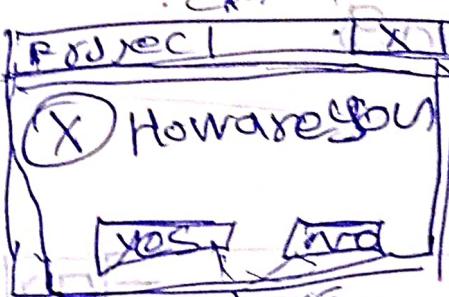
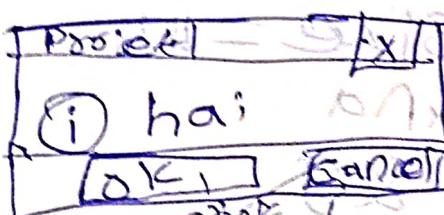
MSG BOX "How are you", vbYesNo + vbCritical

MSG BOX "I am fin", vbOKOnly + vbExclamation

End Sub

out put

Output = ~~Project~~ - Project - Exit



gf: 56 08098882111 message box MASSAGE BOX  
2010-07-10 10:45:10  
msg box "message" & varna

ex:

## ~~Dimension Assessing~~

dim & As Date

dim & AS Date  
Private sub form\_Click()

na = "Latha"

$$\lambda = "1/418000"$$

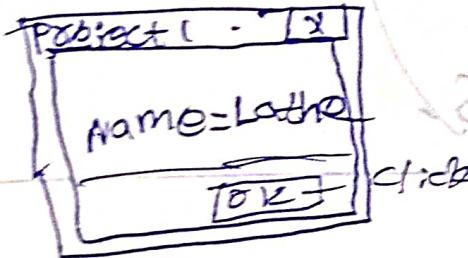
Miss Box's Name = Anna

msg Box "Rate of B18h = " d

and sub

End of Sub

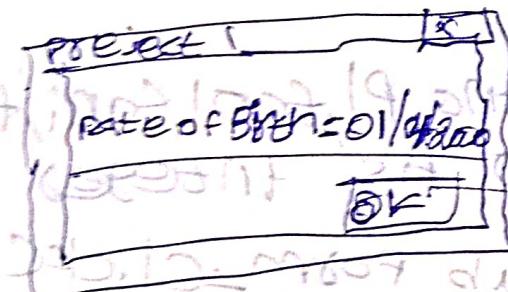
output OSR2370 →



210m110.7

299wol2:7

→ new goal



input box:

Run them user will see nothing

g.f.:  $\text{order } 9 \times 3^2 = 3^3 \cdot 11 = 33$

Varna = input("box ("message")")

Dimension AS Strong 100% / 100%

dim yto as integer

private sub FormClick

enam = InputBox("Enter the EMP Name")

eno = InputBox("Enter the reg number")

MsgBox "EMP Name = " & enam

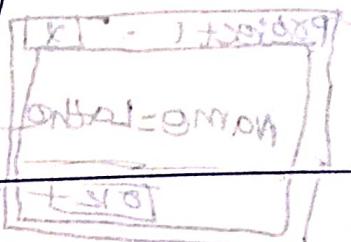
MsgBox "EMP Register Number = " & eno

End Sub

Name  
DOD No  
Street Name  
Place  
F. color  
F. animals  
F. flowers

B610  
"fontStyle" = 6  
Green → forecolor  
Red → backcolor

FontSize = 50



Job work

Dim na, stna, pl, fcol, fani, fflo As String

Dim dono As Integer

Private Sub Form\_Click()

Form1.BackColor = vbRed

Form1.ForeColor = vbGreen

Form1.FontBold = True

Form1.FontSize = 50

na = InputBox("Enter the name")

stna = InputBox("Enter the Street Name")

pl = InputBox("Enter the Place")

fcol = InputBox("Enter the favortecolor")

fani = InputBox("Enter the favortecolor animals")

fflo = InputBox("Enter the favortecolor flowers")

dim no = In Put Box (enter the door no)

msgbox "name" & no

msgbox "door no" & no

msgbox "street name" & "8 Stn 4"

msgbox "place" & "P1"

msgbox "favourite color" & "#ffcc00"

msgbox "favourite animals" & "Ganesh"

msgbox "favourite flowers" & "#ff7f0e"

End Sub

8/4/19

Tuesday

## operators

\* Arithmetic operators  $\rightarrow +, -, \times, /, \%, ^$

\* Relational op  $\rightarrow >, <, =, \geq, \leq$

\* Logical op  $\rightarrow \text{and}, \text{or}, \text{not}$

~~Assignment operator~~

direct method example programs

Dim a, b, tot AS Integer

Private Sub Form\_Click()

a = 20

b = 30

tot = a + b

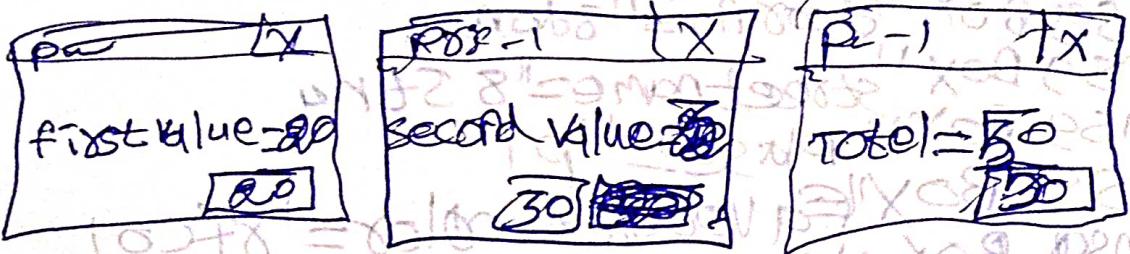
MsgBox "First value" & a

MsgBox "Second value" & b

MsgBox "Total" & tot

End Sub

## out put



Indirect method

~~Culicetias~~ ~~வெள்ளுத் தாழை வாலோன்ஹூஸ்~~  
~~வெள்ளுத் தாழை வாலோன்ஹூஸ்~~

g.f

f  
váyma=Val(inputBox("message"))

ex

```
Dim Sna AS String  
Dim qty,xa,totl Val AS Integer  
Dim dis AS Double
```

Private Sub Form\_Click()

sna = input Box ('Enter the stock name')

```
qty = val(input("Enter the quantity"))
```

$\alpha = \text{val}(\text{InputBox}(\text{"Enter the Rate"}))$

```
dis = eval(input("Enter the distance"))
```

$$f_{\text{tot}} = a t^y * y^t$$

$$Val = \frac{Got}{100} * 100$$

~~FORM 1. FOR 5 TIMES  
1. F.O.R & SIZE = 30~~

form 1, PDI: 1.85 n4  
at 1520 rpm name = "85n4"

PRINT "SCHOOL IS IN SESSION"  
PRINT "TODAY = " & DAY

Print Rate = 1889

print("Total = " + str(1850))

Print "Discount percentage = %dis"

POINT "Discount value = 18%"  
END Sub  
out puts

~~post office at 880 m/s~~

stock No. No = P0  
~~1000~~ 002. 95% 67  
 Q + Y = 80  
 Rate = 0.0  
~~1000~~ 1 = 1000  
 total = 1000  
 discount present value = 3771 = 0.7  
 discount value = 1228 = 0.8

## Lab work

## Student Major Statement

student name

Roll No: 7090511-CEP01

Tamil Mask

## English mark

# Maths magic

Science - mark

Social "mark" (not "label")

to Edl (BMA 318 " = 860M Neigard" 31178  
" = 480M Simot " 31178

average ~~18m8" = 47m 2nd floor / 2nd fl~~

Empathy sense "feel"

Empname = "Yashwant Singh" Phno = "9899000000"

EMPNO: 09A812908VA "S078

years satasy:

Month salary?

oneday salary:

Dim strn As String  
Dim Rota, Eng, Maths, Sci, Total  
Dim avg As Double

Private Sub Form\_Click()

strn = InputBox("Enter the student name")

ro = InputBox("Enter Roll No")

Rota = Val(InputBox("Enter the Eng. No"))

Maths = Val(InputBox("Enter the Maths No"))

Sci = Val(InputBox("Enter the Science No"))

avg = Val(InputBox("Enter the Average"))

tot = THE + Maths + Sci

Avg = tot / 3

Form. Form = "C:\per" & strn & ".txt"

Form. Form = "C:\per" & strn & ".txt"

Form1. BackColor = vbRed

Form1. ForeColor = vbYellow

Point "Student Name" = strn

Point "Roll No" = ro

Point "Engl mark" = Rota

Point "English mark" = Rota

Point "Maths mark" = Maths

Point "Science mark" = Sci

Point "Social Science mark" = avg

Point "Total" = tot

Point "Average" = avg

End Sub

# EMPPFTU

Dim Ena AS String  
Dim ENO, Y, M, d AS Integer

Private Sub FORM\_Click()

Ena = InputBox("Enter the EmpName")  
ENO = InputBox("Enter the EMP Number")  
Y = Val(InputBox("Enter the Year salary"))  
M = Y / 12  
d = M / 30  
Form1.FontSize = 59  
Form1.Font = "COPEZI"  
Form1.FontBold = True  
Form1.ForeColor = vbRed  
Form1.BackColor = vbYellow  
Form1.FontUnderline = True  
Print " EMPPFTU "  
Form1.FontUnderline = False  
Print " EmpName = " & Ena  
Print " EMP Number = " & ENO  
Print " Year salary = " & Y  
Print " Month Salary = " & M  
Print " Day salary = " & d

End Sub

# OUT PUT VIA FUNCTIONS

ROOM	EMPLOYEE	SALES	BALANCE
SALES	SALES	10000	10000
YEAR	YEAR	4800	5200
MONTH	MONTH	400	5600
DAY	DAY	3.8888	5600

(~~passing parameter~~) / 100 = K

~~21/10  
Tuesday~~

## function

$\Rightarrow$  String function

$\Rightarrow$  Date - time function

## String function

	use	RTIME	ASCII
LEN	use	STRTIME	SET
LEFT	use	STRTIME	FOR
RIGHT	use	IN SET	IF
MID	use	CH8	TRUE

## LEN

len என்று கூறுவது பொதுவாக ஒரு தலையின் கணக்கு என்று விடப்படுகிறது.

## GET

varna = len(varna)  
(08)

varna = len('string')

left

⇒ split the left side number of characters

g5:

varna = left("varna", number of characters)

right

= எல்லெங்கள் ஒரிசுவது தொழிற் குழுமம் Right Side

ஏற்கும் வாய்மை வாய்மை வாய்மை வாய்மை

g5:

varna = right("varna", number of characters)

varna = right("string", number of characters)

mid

⇒ center side அணிகள் வகை

g5:

varna = mid("varna", starting place, number of letters)

Example:

private sub form1\_click()

ch = input box("Enter the any one string")

L = Len(ch)

A = Left(ch, 3)

R = Right(ch, 8)

M = Mid(ch, 10, 7)

form1.scrpt = "print size of the string = " & ch  
print "Given string = " & ch  
print "Length of the string = " .  
print "Right side characters = " & R

Print mid Side character = & m

End Sub

Out

Given string = computer software centre  
Length of the string = 14  
Left side character = compu  
Right side character = e, centre  
Mid side character = softwar

char:

⇒ varia print the ascii - lettering

gs:

= varnach & number of charactor

pm:

Private sub form\_Click()

ff = Input Box("Enter the any one letter")  
s = Chr(ff)

Print " value = " & s

ascii:

varna = ASCII (varna or letter)

⇒ letter = 256 combinations of 37ak

Q5:

Varna = ASCII value of letter

Private Sub Form\_Click()

FF = INPUT Box ("Enter the any one number")

S = Chr(FF)

Print "Value = " & S

End Sub

Form - 1x

Value =	92
---------	----

Lab work

Grand Father Name. SAMY

Father's Name. KUMAR

My name. MURUGAN

Lab

Private Sub Form\_Click()

g = Input Box ("enter the grand father name")

f = Input Box ("enter the father name")

m = Input Box ("enter the my name")

L = Lst(g)

L1 = Lst(f)

Print "&f;" . "&L1;" . "&m"

End Sub

Box  
on the ga  
fa na  
samy

Box  
on the father  
kumar

Box  
on the my na  
muyugan

Output

S.K. MURUGAN

~~WTF~~ ~~wednesday~~ ~~case~~:  
→ convert the letters in small letters  
format (lowercase) → sum = 97  
 $(A - 65) = 2$

gs

varna = lcase("varnagodalseking")  
ans: 693

ucase:

→ convert the letters in capital letters  
format (uppercase)

gs

varna = ucase("varnagodalseking")  
ans: 693

trim:

→ remove the space for both  
sides

gs:

varna = trim("string" or varna)

ltrim:

→ remove the left side space

varna = ltrim("string" or varna)

rtrim:

→ remove the right side space

gs

varna = rtrim("string" or varna)

strreverse:

→ print the letters in reverse  
order format

gs

varna → strreverse(varna or "string")

## Ex. Program:-

Private Sub Form\_Click()

d = InputBox("Enter the string")

u = UCase(d)

i = LCase(u)

ii = Trim(" computer")

l3 = Trim(" Good morning")

i3 = Right(" Good Afternoon")

i4 = StringReverse(d)

Print " Setting = " & d

Print " Upper Case = " & u

Print " Lower Case = " & i

Print " Trim = " & i1

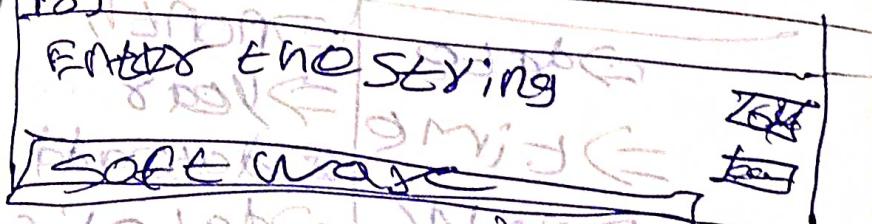
Print " Left Trim = " & i2

Print " Right Trim = " & i3

Print " StringReverse = " & i4

End Sub

Output



String = Software

Upper Case = SOFTWARE

Lower Case = software

Trim = COMPUTER

Left Trim = Good morning

Right Trim = Good after noon

StringReverse = orawtros

## instx:

↳ எதாவது letter & symbol க்குப் பதில் கொடுக்க

Print instx("string", "letter") = b  
(b) 025

## string:

↳ ஒன்றை சொல்ல வேண்டும் போது முறை கீழ்க்கண்ட வகையில் கொடுக்க

Print string(numberoftime, "symbol")

gf: ("person board")

ex: noon

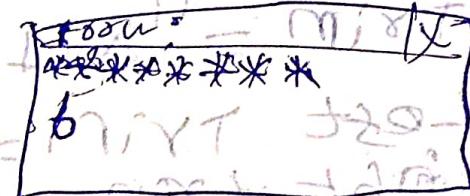
Private sub form\_click()

Print string(8, "\*")

Print instx("show my all", 16)

end sub

output



## Date and time

→ date	→ month	→ datepart
→ time	→ year	→ hours
→ now	→ dateadd	→ minutes
→ day	→ datediff	→ second
	→ dateserial	→ weekday
		→ weekdayname
		→ monthname

acc: → printing the today date

gs: → print date

time: → print time

→ printing the today time

95 ~~MIT~~ 2017-18 VOBOT'17 SNIS'A  
POINTING TIME & DATE  
NOW ~~LETS~~ NOV 12 ON 2017/11/30 10:00  
⇒ PRINT TO COOL DATE ON TIN

GF:

POINT NOW

DAY:

SPLIT THE DAY FOR THE DATE

GF:

var da = date()

MONTH:

⇒ SPLIT THE MONTH FOR THE DATE

GP:

var na = month(da)

YEAR:

⇒ SPLIT THE YEAR FOR THE DATE

GS:

var na = year(da)

EXAMPLE PROGRAM:

Private Sub Form\_Click()

da = InputBox("Enter the date")

d = Day(da)

m = Month(da)

y = Year(da)

Print "Date and time function"

Print "Today is " & y & "-" & m & "-" & d

Print "To day date is " & da

Print "Today's Time = " & Time

Print "date and time = " & Now

Print "Day of the given date = " & Day

~~Print Now~~ ~~Year~~ of 1995 at JN, 89C  
lebno2

EMP No:

EMP Name:

Date of joining: 07 Feb 92

Current Date

Exp:

Print "Month of the given date = " & Month

Print "Year of the given date = " & Year

End Sub

Lab work

Sub Form\_Click

EN = InputBox("Enter the EMP Name")

ENO = InputBox("Enter the EMP Number")

JD = InputBox("Enter the JOINING DATE")

Print "EMP NAME : " & EN

Print "EMP NUMBER = " & ENO

Print "EMP JOINING DATE = " & JD

Print "CURRENT DATE = " & Now

Y = Year(JD)

J = Year(JD)

F = Y - J

Print "EXPERIENCE = " & F

End Sub



## Example for datediff:

Private Sub Form\_Click()

na = InputBox("Enter the name")

dob = InputBox("Enter the date of birth")

age = DateDiff("yyyy", dob, Date)

m = DateDiff("m", dob, Date)

d = DateDiff("d", dob, Date)

Print "Name = " & na

Print "Date of Birth = " & dob

Print "age = " & age

Print "Birth Month = " & m

Print "Birth Number of day = " & d

End Sub

Output

Form	1
Name	Latha
Date of Birth	3/3/1995
age	24
Birth Month	3
Birth Number of day	27

## Ex. P00. dateadd:

Private Sub Form\_Click()

cname = InputBox("Enter the Emp Name")

cno = InputBox("Enter the Emp Number")

c = InputBox("Enter the mobile number")

g = InputBox("Enter the gender")

n = InputBox("Enter the add yes/no")

d = DateAdd("yyyy", n, Date)

```

Print "EMPName = " & empname
Print "EMP Number = " & empno
Print "Mobil Number = " & mobil
Print "Gender = " & gender
Print "Number of year = " & year
Print "Increment Year = " & incrementYear
End Sub

```

EMPName	Hari
EMPNumb	1234
Mobil Number	9876543210
Gender	Male
Number of year	23
Increment Year	05/04/2014

~~Month Name:~~

Month Name: ~~Varuna=month name(month date)~~

Weekday: ~~Varuna=weekday name(weekday date)~~

GF: ~~Varuna=week day(date)~~

Weekday name: ~~day: 01/01/01~~

GF: ~~Varuna=weekday name(weekday date)~~

Ex. Program 8: To print name, date of birth, age, month name, weekday name

Private Sub FormClick()

Name = InputBox("Enter the Name")

Dob = InputBox("Enter the date of Birth")

Age = DateDiff("yyyy", dob, Date())

M = MonthName(month(dob))

W = Weekday(dob)

W1 = WeekdayName(weekday(dob))

Print "Name = " & Name

Print "Date of Birth = " & Dob

Print "Age = " & Age

Print "Month name = " & M

Print "Weekday = " & W

Print "Weekday Name = " & W1

End Sub

Form 1  
Name = Nithin  
Date of Birth = 23/6/2000  
Age = 19  
Month name = June  
Weekday = 6  
Weekday name = Friday

efday

Name:

Registration No.:

Qualification:

Gender:

Blood Group:

Street Name:

Place:

Coll No.:

Father Name:

Mother Name:

DOB Month:

Top Private sub Form\_Click()

na = InputBox("enter the id name")  
re = InputBox("enter the registered number")  
q = InputBox("enter the qualification")  
g = InputBox("enter the gender")  
d = InputBox("enter the door number")  
st = InputBox("enter the street name")  
p = InputBox("enter the place")  
c = InputBox("enter the mobile no")  
fu = InputBox("enter the father's name")  
n = 3  
da = DateAdd("yyyy", n, Date)  
Print "name = " & na  
Print "register number = " & re  
Print "qualification = " & q  
Print "gender = " & g  
Print "door number = " & d  
Print "street name = " & st  
Print "place = " & p  
Print "mobile number = " & c  
Print "father's name = " & fu  
Print "next renewal date" & da  
End Sub

(mit) b7o2 = 2014-02-28

ONE PATENT

NAME = SATHI	REGISTRATION NO = 18U3
QUALIFICATION = 18	ENTER = MALE
DOB & MEMBER = 140	

STREET NAME = NORTH

PLACE = VSM

MOBILE NUMBER = 9790118364

FATHER NAME = ANGAPPAN

NEXT RENEWAL DATE = 1/1/2007

Varuna = hours

6/4/2019

hour

$\Rightarrow$  Split the hour for the time  
95:

Varuna = hour(time)

minute:

$\Rightarrow$  Split the minute for the time  
98:

Varuna = minute(time)

Second:

$\Rightarrow$  Split the second for time  
99:

Varuna = second(time)

Date serial:

⇒ join the day, month, year in date formula

Time serial:  
join the hour, minute, second

year = date serial (year, month, day)

Time serial:  
join the hour, minute, second

⇒ join the hour, minute, second)

'exam': fibo sequence

• private sub form\_click()

y = input box ("Enter the year")

m = input box ("Enter the month")

s = input box ("Enter the day name")

h = Hour (Time)

m = minute (Time)

s = second (Time)

da = date serial (y, m, s)

ti = time serial (h, m, s)

print "year = " & y

print "month = " & y

print "day = " & s,

print "hour = " & h

print "minute = " & m

print "second = " & s

print "date = " & da

print "time = " & ti

End sub

out put  
 Form 2  
 year = 2003  
 month = 6  
 day = 4  
 hour = 9  
 minute = 21  
 second = 58  
 date = 04/06/2003  
 time = 9:21:58 AM

## Control Structures

- ⇒ Control statements
- ⇒ Looping statement

### Control Statement

⇒ check the given condition, condition is true so print the statement

⇒ if

⇒ if else

⇒ else if

⇒ if:

⇒ nested if

⇒ switch case

⇒ goto

⇒ if check the if condition, if condition is true so print the if statement, if condition is false so exit program

⇒ if this condition then

⇒ if = 0

Statement  
end if

get ex

$x = 100$   
 $y = 200$   
 $p = 0$

15 = 200

82 = 100

2008 / 20 / 40 = 9 + 100

MA 8J: NS: P = 3M: J

if = 0

else b

Ex:

Private Sub Form\_Click()

n = InputBox("Enter the any one number")

If n = 5 Then

Print "Given number if = 5"

End If

End Sub

Given number if = 5

Ex:

Private Sub Form\_Click()

n = InputBox("Enter the any one number")

If n <= 10 Then

Print "Given number is less than or equal to 10"

End If

End Sub

Given number = b

if else

→ if check the if condition, if condition is true so print the if statement, if condition is false so print else statement,

gf:

if else (diamond bracket)

; if condition then

statement

else statement

end if

ex:

```
Private Sub Form_Click()
    Name = Input Box("Enter the Name")
    RollNo = Input Box("Enter the Roll Number")
    P = Val(Input Box("Enter the practical mark"))
    T = Val(Input Box("Enter the theory mark"))
    tot = P + T
    Print "Name = " & Name
    Print "Roll Number = " & RollNo
    Print "Practical mark = " & P
    Print "Theory mark = " & T
    Print "Total = " & tot
    If tot >= 80 Then
        Print "A Grade"
    Else
        Print "B Grade"
    End If
End Sub
```

Name = saathi
Roll number = 103
Practical mark = 60
Theory mark = 60
Total = 120
A Grade

Task Work

EMP NO: :  
EMP NO:  
Joining date:-  
Exp year:

Not working ;

Classmate

Attendance

in time

Private sub FORM\_Click()  
 EN = InputBox("Enter the EMP Name")  
 ENo = InputBox("Enter the EMP No")  
 JD = InputBox("Enter the EMP JOINING DATE")  
 Print "EMP Name = " & EN  
 Print "EMP NUMBER = " & ENo  
 Print "EMP JOINING DATE = " & JD  
 Print "CURRENT DATE = " & Date  
 Y = Year(Date)  
 J = Year(JD)  
 E = J - Y  
 Print "EXPERIENCE year = " & E  
 If E >= 10 Then  
 Print "continuing your job"  
 Else  
 Print "dis continuing your job"  
 End If

out put:

EMP NAME	= Sathish
EMP Number	= 1234567890
EMP JOINING DATE	= 28/1/1999
CURRENT DATE	= 1/1/2004
EXPERIENCE year	= 5
dis continuing your job	Power
RRD	= 1999 Oct 1999

Ques Pro

Private sub Form\_Click()

n = Input Box ("Enter the any one number")

If n = 0 And n <= 9 Then

Print "one digit number - " & n

Else If n >= 10 And n <= 99 Then

Print "two Digit number - " & n

Else If n >= 100 And n <= 999 Then

PRINT "Three digit number = " & A

END

PRINT " Above three digit value = " & B

END

END SUB

[OUT PUT]

one digit number = 8

Two digit number = 22

Three digit number = 888

Above Three digit value = 888888

nesting if condition

→ if condition then used condition

eg: 1

if condition then

if condition then

statement

else

statement

end if

end if

else

statement

endif

Q 1. Write command line program in VB

• Private sub form click()

P = Input Box("Enter the Password")  
R = Input Box("Enter the Re-Enter Password")

If P = "123456789" Then

If R = "123456789" Then

Print "Login Success"

Else

Print "Re-Entered Password is wrong"

End if

Point "password is wrong"

End if

out put

Login success

switch case

Select the mode the one option  
is same times

Q5.

Select case (alarm)

Case "letter": (do something)

Statement

case "letter":

Statement

case "letter":

Statement

end select

exa

Private Sub Form1\_Click()

i = InputBox("Enter the anyone letter")

Select Case i

Case "r":  
Form1.BackColor = vbRed

Case "g":  
Form1.BackColor = vbGreen

Case "b":  
Form1.BackColor = vbBlue

Case "bl":  
Form1.BackColor = vbYellow

Case "y":  
Form1.BackColor = vbYellow

End Select

End Sub

① Name

as name or

above and 1 digit

Eligible for vote  
is below

not eligible

② Enter name

③ Enter No:

6 above and 1 digit

valid number

NOTE valid number

④

Enter the

First Name

Enter the second name

Enter the symbol

①

```

Private Sub Form_Click()
    na = InputBox("enter the name")
    ag = InputBox("enter the age")
    If 18 <= ag Then
        Print "are eligible for VOTE"
    Else
        Print "not eligible for VOTE"
    End If
End Sub

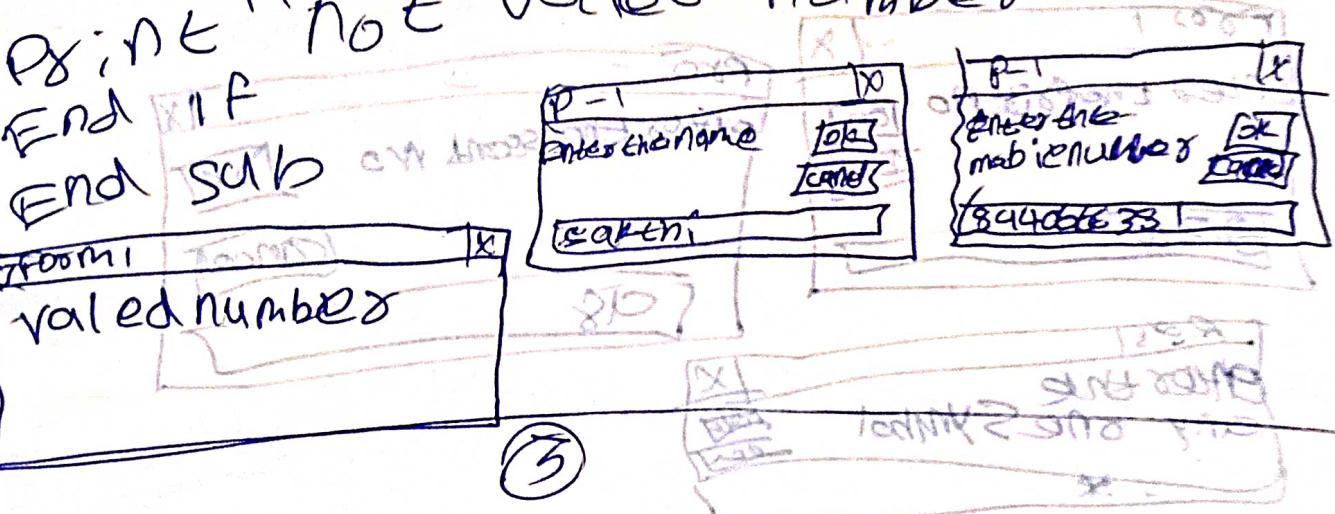
```

②

```

Private Sub Form_Click()
    na = InputBox("enter the name")
    cm = InputBox("enter the mobile Number")
    l = Len(cm)
    m = Lose(c)
    If l = 11 And m = 1 Then
        Print "Valid Number"
    Else
        Print "Not Valid"
    End If

```



Private sub form\_Click()

$fn = \text{InputBox("enter the first no")}$

$sn = \text{InputBox("enter the second no")}$

$s = \text{InputBox("enter the any one symbol")}$

$ad = fn + sn$

$sb = fn - sn$

$ml = fn * sn$

$dv = fn / sn$

Select Case(s)

Case "+":

Print "addition = " & ad

Case "-":

Print "subtraction = " & sb

Case "\*":

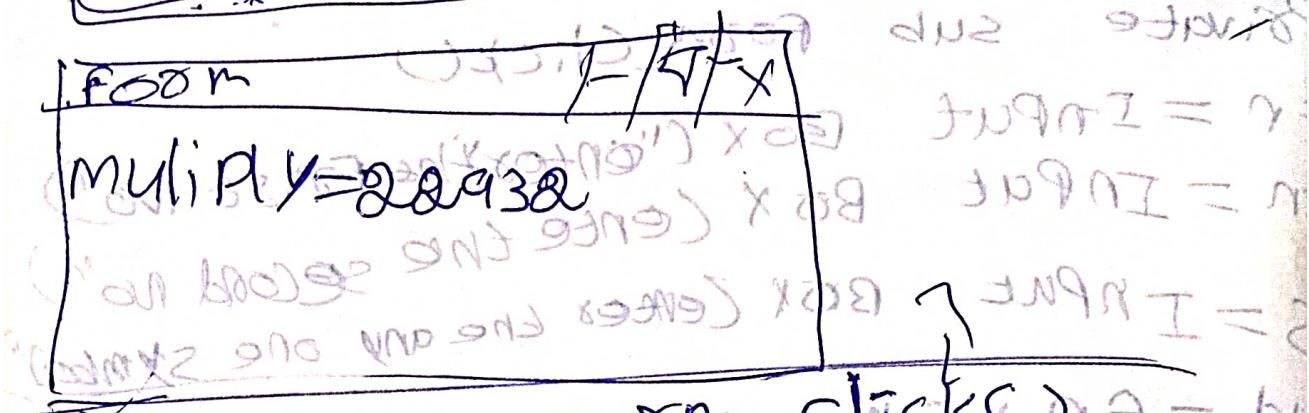
Print "multiplication = " & ml

Case "/":

Print "division = " & dv

End Select

End Sub



Private Sub Form\_Click()

F = InputBox("Enter the 1st No")  
 S = Val(InputBox("Enter the 2nd No"))  
 S1 = InputBox("Enter the anyone symbol")  
 Select Case (S1)

Case "+":

S2 = F + S.

Print "Total = " & S2

Case "-":

Print "Total = " & S3

Case "\*": d2 \* " = " & S4

~~Print "Total = "~~

S4 = F \* S1

Print "Total = " & S4

Case "/":

VbMsgBox "Total = " & S5

SS = f/S

Print "Total = " & SS  
End Select  
End Sub

8/4/2018

Goto

contion FRM Work-arrange

label name:

If condition then  
Statement

else

goto labelname

End If

goto option@function, g.f. function option  
if, if else, else if, If select case  
function g.f. work arrange

Example:

Private Sub Form\_Click()  
UNA = InputBox("Enter the user Name")

g:

PS = InputBox("Enter the Password")

If PS = "\*\*\*\*\*" Then

Form1.Show

Form1.BackColor = vbRed

Else

MsgBox "Password is wrong"

Go To 9

End If  
End Sub

### Form

Private Sub Form\_Click()

Form1.BackColor = vbGreen

Print "Login Success!"

End Sub

### Looping statement:

do while

for

nested for

do while:

initial value

do while (condition)

statement

inc/dec ————— n=n+1, n++, n=n-1, n-

(loop) repeat until condition

or

Private Sub Form\_Click()

n = 1

Do While Cn <= (0)

Print "Welcome"

n = n + 1

Loop

End Sub

## Private Subform Click

5 = )

PO WHILE( $n \leq 10$ )

## Point h

$$n = p_4$$

Lepid

60A

~~1-3~~ SUB

Private sub form click

$$P \supseteq D$$

do while( $n > 0$ )

print n

$$j = n - \theta$$

loop  
end sub

Private Sub Form\_Click()

$$\rho = 1$$

~~Downhill (nL=1)~~

POINTEN

1-3028

150P

End sub

private sub Form\_Click()

$$\rho = 100$$

po while ( $n >= 10$ )

# Point n

$$n = n - 10$$

loop

End Sub

A whiteboard with handwritten text. The text includes the word "from" at the top left, followed by a large number "100". Below this is a vertical list of numbers from 1 to 10. To the right of the list is a large multiplication problem:  $100 \times 10 =$ . The equals sign is followed by a large number "1000".

1	100
3	80
5	70
7	60
9	50
11	40
10	30
8	20
6	10
4	0

Form	1 - 100%
SPOT	100 - 50
5	
100	50 - 0

Form 1

100  
90  
80  
70  
60  
50  
40  
30  
20  
10

P

Private sub Form\_Click()

na=InputBox("enter the name")

t=InputBox("enter the t.M")

E=InputBox("enter the E.m")

m=InputBox("enter the m.m")

S=InputBox("enter the S.m")

SS=InputBox("enter the SS.m")

③

If  $t \geq 35$  and  $E \geq 35$  and  $m \geq 35$

and  $S \geq 35$  and  $SS \geq 35$  Then  
print "Pass"

Else

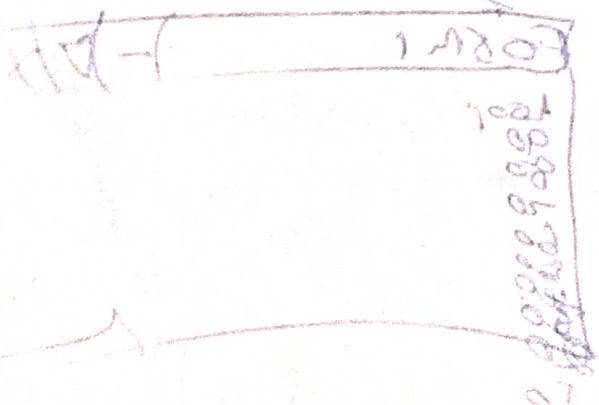
Print "Fail"

End If

End Sub

A To Z - 65 To 90 | a-z - 97-122

0-9 - 48-57 | Space - 32



at 4/18/2014

for

for varna = starting to end step values  
statement  
next

Private sub form\_click()

For S=1 To 10 Step 2

Print S;

Next

End Sub

loop	1 to 10
1	13579
2	20738
3	(3) 86 37179

Program:

Private sub form\_click()

For S=1 To 10 Step -1

Print S;

Next

End Sub

Form	1 to 10
	10 987654321

Reversed For loop:

For varna = start to "end step value

For varna = start to "end step value

Statement

Next

Statement

Next

Example:

Private sub form\_click()

For S=1 To 5 Step 1

For Y=1 To S Step 1

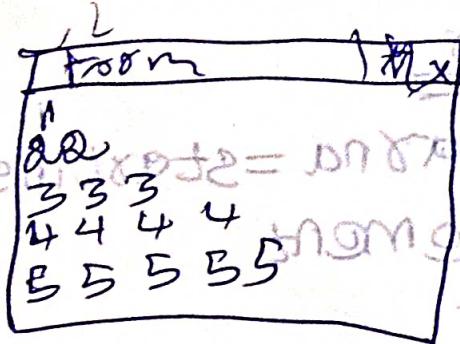
PINES;

Next

PRIVATE SUB FORM CLICK

Next

End Sub



EX. P00

PRIVATE SUB FORM CLICK

FOR S=65 TO 68 STEP 1

FOR Y=65 TO 5 STEP 1

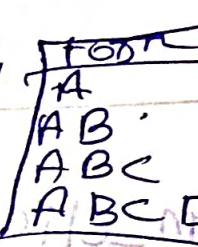
PRINT chs(y);

NEXT

PRINT

NEXT

END SUB



Picture;

Set the Picture for the form.

Q.S =

controlname.picture = loadpicture

Ex. P00:

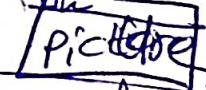
PRIVATE SUB FORM CLICK

Form1.picture = LoadPicture

(D:\Backup\New PICTURES

50CA4A40---0---750---.jpg)

END SUB



private s. 0

123

456

7890

b. jpg np

12345

67895

55555

Private sub form\_KeyDown(KeyCode as Integer)

Form1.Picture = LoadPicture("C:\Backup\new\PICTURES\maxresdefault(2).jpg")

End Sub

---

Ex:

Private sub Form\_Click()

For n = 1 To 8 Step 1

For s = 1 To 8 Step 1

Print s & " " & n & " "

Next

Print

Next

End Sub

Form	Hold
1	
2	
3	
4	
5	
6	
7	
8	

F	①
N.	Private sub Form_Click()
A	For s = 0 To 8 Step 1
H	For g = 0 To s Step -1

Print ch(g);

Next

Print

Next

End Sub

FOOT	HOLD
=	
z	
z	y
z	y
x	

② Private sub Form\_Click()

For d = 1 To 5 Step 1

For f = 1 To d Step 1

Print 5;

Next

Print

Next

End Sub

FOOT	HOLD
5	
5	5
5	5 5
5	5 5 5
5	5 5 5 5

## text box:

⇒ get the values for the user in run time

## Properties:

- ⇒ name
- ⇒ font
- ⇒ visible
- ⇒ height
- ⇒ width
- ⇒ passwordchar
- ⇒ data source
- ⇒ data field

## method:

⇒ setfocus

## event:

change

## label:

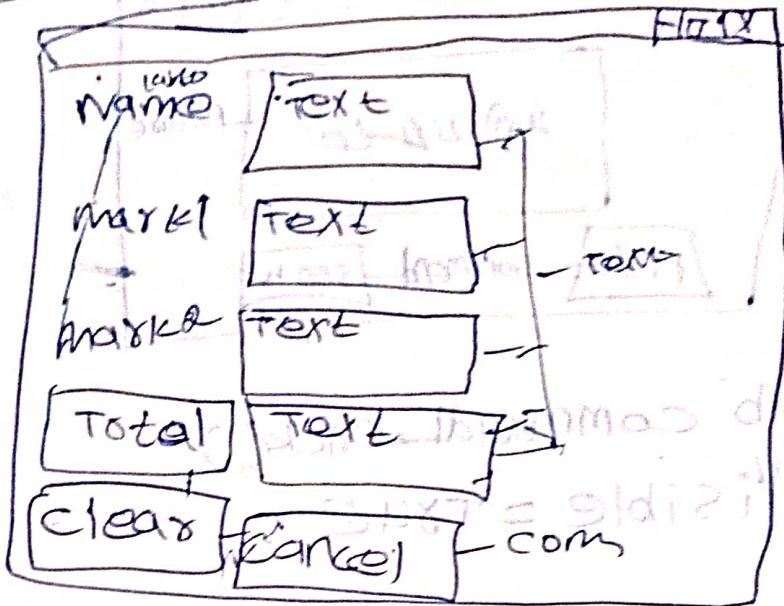
⇒ adult asks about , controls it's value

## Properties:

- ⇒ name
- ⇒ font
- ⇒ visible
- ⇒ height
- ⇒ width
- ⇒ forecolor
- ⇒ backcolor
- ⇒ caption

⇒ No even , also method for  
label box

# Form Design



Ex: ~~CHS102 Application Development~~

```
Private sub command1_Click()
a=val(text2.Text)
b=val(text3.Text)
c=a+b
```

text4.Text=c

End Sub

```
Private sub command2_Click()
```

text1.Text=""

text2.Text=""

text3.Text=""

text4.Text=""

text5.Text=""

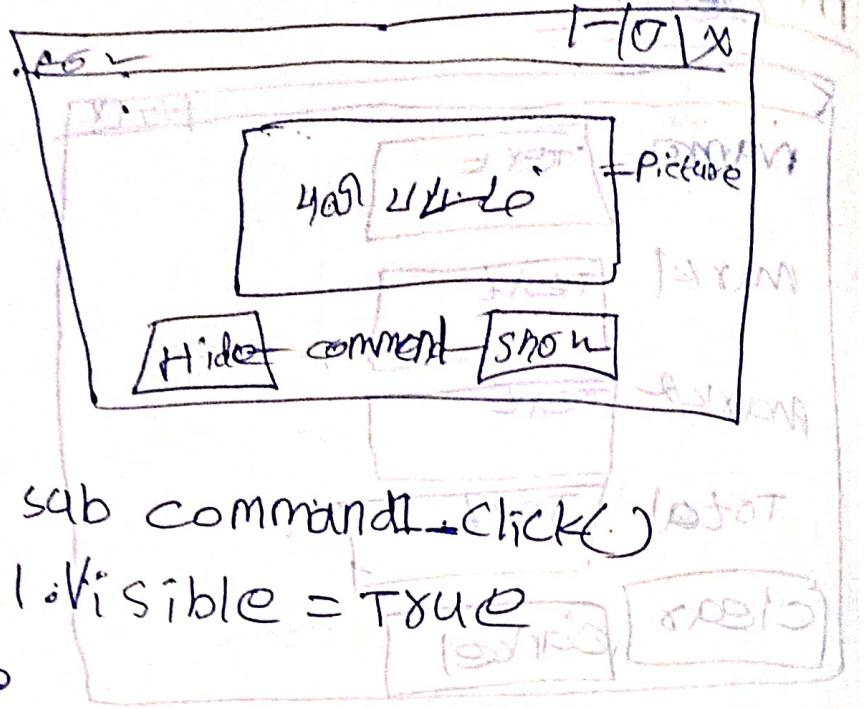
text1.set focus

End Sub

```
Private sub command3_Click()
```

End

End Sub

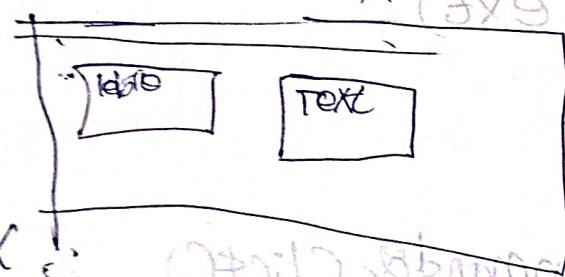


ex:

```
Private sub command1_Click()
Picture1.Visible = True
End sub
```

Private sub command1\_Click()

```
Picture1.Visible = False
End sub
```



ex:

```
Private sub Text1_Change()
d = Text1.Text
```

```
If d = "red" Then
```

```
Text1.BackColor = vbRed
```

```
Form1.BackColor = vbRed
```

```
Else If d = "green" Then
```

```
Text1.B
```

```
Form1.B
```

```
ElseIf d = "yellow" Then
```

```
Text1.B
```

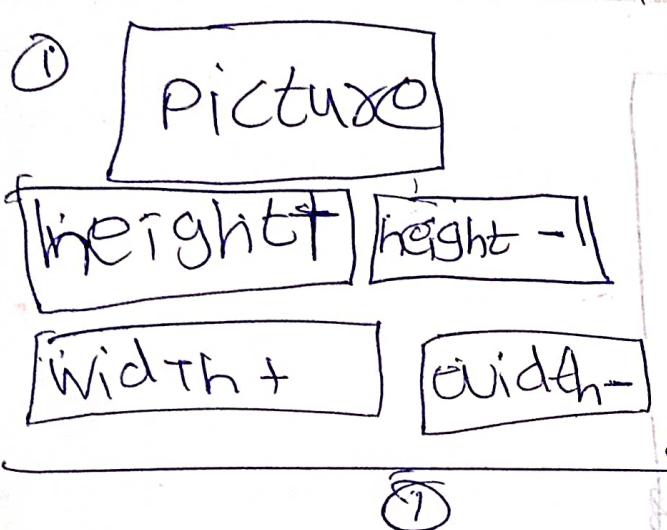
```
Form1.B
```

```

Else if d = "blue" Then
    Text1.B
Form 1.

Else if d = "black" Then
    Text1.B
Form 1-B
Else
    Form 1.BackColor = vbWhite
    Text1.
End If

```



Name:

Roll No:

Tamil:

English:

Maths:

Science:

Social:

Total:

Average:

Result:

Project - Form[From Room]

$$\begin{aligned}
 & (3x15, 3x15) \rightarrow PV = 5 \\
 & (5x97, 5x97) \rightarrow PV = 5 \\
 & (5x97, 237x97) \rightarrow PV = 5 \\
 & (3x97, 3x97) \rightarrow PV = 5 \\
 & (2x97, 5x97) \rightarrow PV = 5 \\
 & 5+5+5+5 = 20 \\
 & R = 5x97, P = 5x97 \\
 & \text{INR } 495
 \end{aligned}$$

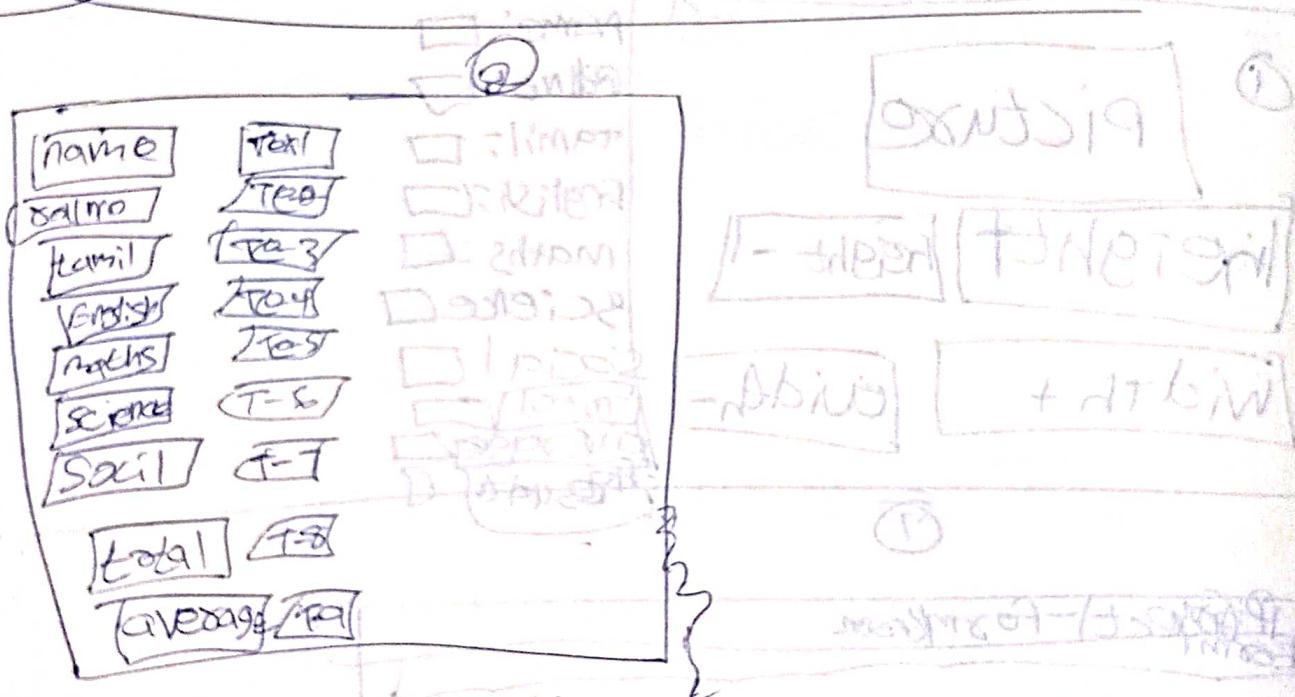
Private sub command 1-click( Integer As Integer )

Picture1.Height = Picture1.Height + 100  
End Sub

Private sub command 2-click()  
Picture1.Height = Picture1.Height - 100  
End Sub

Private sub command 3-click()  
Picture1.Width = Picture1.Width + 100  
End Sub

Private sub command 4-click()  
Picture1.Width = Picture1.Width - 100  
End Sub



Private sub command 2-click()

a = Val(Text3.Text)

b = Val(Text4.Text)

c = Val(Text5.Text)

d = Val(Text6.Text)

e = Val(Text7.Text)

f = a + b + c + d

g = f / 8

Text9.Text = g

End Sub

## Private Sub Command1\_Click()

a = Val(TextBox3.Text)

b = Val(TextBox4.Text)

c = Val(TextBox5.Text)

d = Val(TextBox6.Text)

e = Val(TextBox7.Text)

f = a + b + c + d + e

TextBox8.Text = f

End Sub

IV/19/11

### checkbox:

⇒ Select the more than one

options in same time

### Properties:

⇒ Name

⇒ Height

⇒ Width

⇒ Value

1. Unchecked (checkbox)

2. Checked (checkbox)

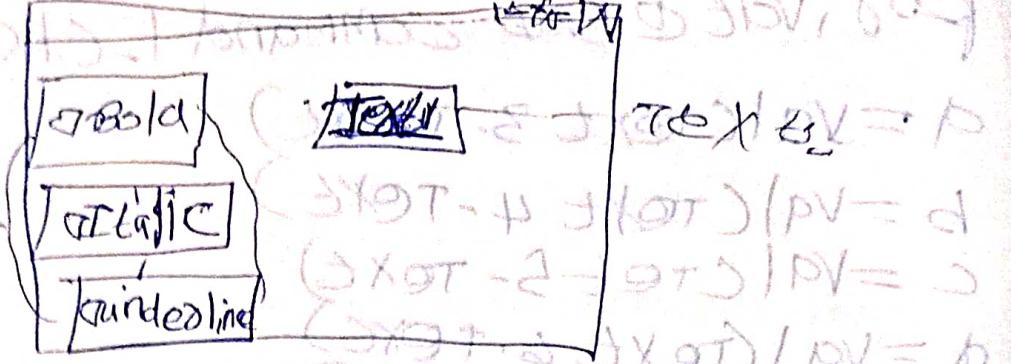
3. Grayed (gray box)

⇒ Font

⇒ Forecolor

### Events:

⇒ Click



Example:

```

Private Sub check1_Click()
If check1.Value = 1 Then
    Text1.Font Bold = True
Else
    Text1.Font Bold = False
End If
End Sub

Private Sub check2_Click()
If check2.Value = 1 Then
    Text1.Font Italic = True
Else
    Text1.Font Italic = False
End If
End Sub

Private Sub check3_Click()
If check3.Value = 1 Then
    Text1.Font Underline = True
Else
    Text1.Font Underline = False
End If
End Sub

```

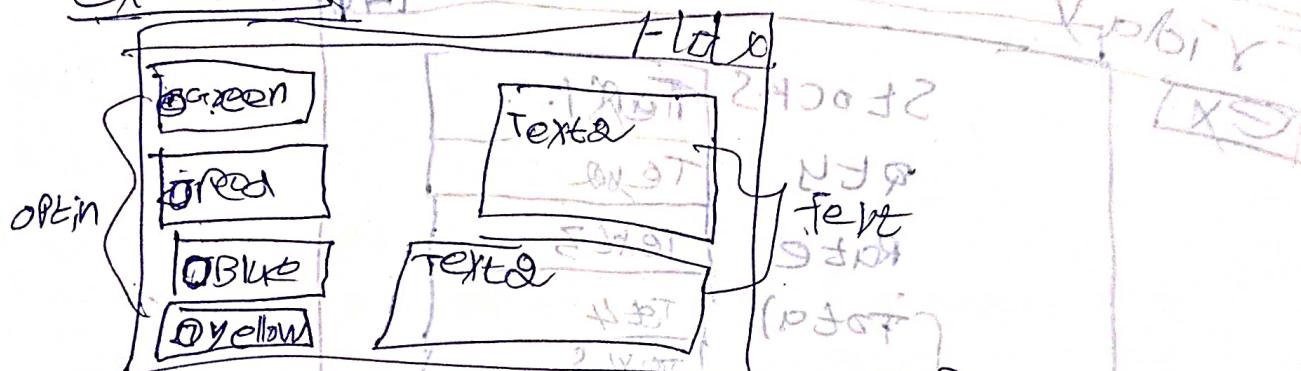
## OPTION

→ Select the any one option in begin time

## Properties

- ⇒ Name → Value
- ⇒ Caption → If true C else F
- ⇒ ForeColor → C, B, G
- ⇒ BackColor → B, G
- ⇒ Height
- ⇒ Width
- ⇒ Visible

## Example



Private Sub Option1\_Click()

If Option1.Value = True Then

Text1.ForeColor = vbRed

Text2.BackColor = vbRed

End If

End Sub

Private Sub Option2\_Click()

If Option2.Value = True Then

Text1.ForeColor = vbBlue

Text2.BackColor = vbGreen

End If

End Sub

Private Sub Option3\_Click()

If Option3.Value = True Then

Text1.ForeColor = vbBlue

Text2.BackColor = vbBlue

End if

End Sub

Private Sub Option4\_Click()

If Option4.Value = True Then

Text1.ForeColor = vbYellow

Text2.BackColor = vbYellow

End If

End Sub

12/14/2019

Friday

EX

STOCKS

Qty	Text1
Rate	Text2
Total	Text3
Discount	Text4
Bounce	Text5
Paid amount	Text6
Clear Cancel	

Comment

Private Sub OptionCommand1Click()

Q = Val(Text2.Text)

R = Val(Text3.Text)

Total = Q \* R

Text4.Text = Total

Private

Private Sub Command1\_Click()

Clear

Next Step = InputBox("What is

Step 2 = AppName

Private Sub Command1\_Click()

$a = Val(Text2.Text)$

$b = Val(Text3.Text)$

$tot = a * b$

$Text4.Text = tot$

End Sub

Private Sub Command2\_Click()

$a = Val(Text2.Text)$

$b = Val(Text3.Text)$

$tot = a * b$

$IP = tot * 4 / 100$

If tot >= 2000 Then

$d = tot * 4 / 100$

$Text5.Text = d$

Else

$d = tot * 2 / 100$

$Text5.Text = d$

End If

End Sub

Private Sub Command3\_Click()

$s = Val(Text4.Text)$

$t = Val(Text5.Text)$

$r = s - t$

$Text6.Text = r$

End Sub

Private sub commands click

```
Text1.TEXT = "1"
Text2.TEXT = "2"
Text3.TEXT = ""
Text4.TEXT = "4"
Text5.TEXT = "5"
Text6.TEXT = "6"
Text7.TEXT = "7"
Text1.setFocus()
End sub
```

Private sub command6 - click  
KP = f of

END

End Sub

Image box:-

Set the image for particular class

## Properties

$\Rightarrow$  name

→ picture

⇒ visible

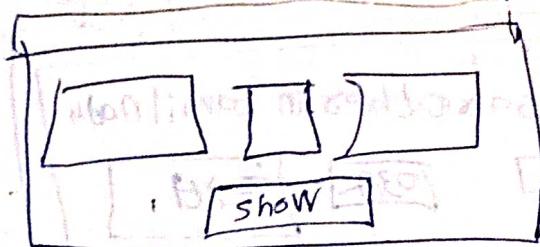
$\Rightarrow$  Stochastik

$\Rightarrow$  box - image  $\Rightarrow$  box  $\Rightarrow$  image

$\Rightarrow \text{false}$  - image of  $b$  is  $b \times \text{only } b$

=> height

Ewight



Example:

Private sub command1\_Click()

Picture1.Visible=False

Image1.Left = Image1.Left + 100

Image2.Left = Image2.Left - 100

If Image1.Left > Image2.Left Then

Image1.Visible=False

Image2.Visible=True

Picture2.Picture=LoadPicture("C:\123.jpg")

End If  
End Sub

Private sub Form\_Load()

Image1.Picture=LoadPicture("C:\123.jpg")

Image2.Picture=LoadPicture("C:\456.jpg")

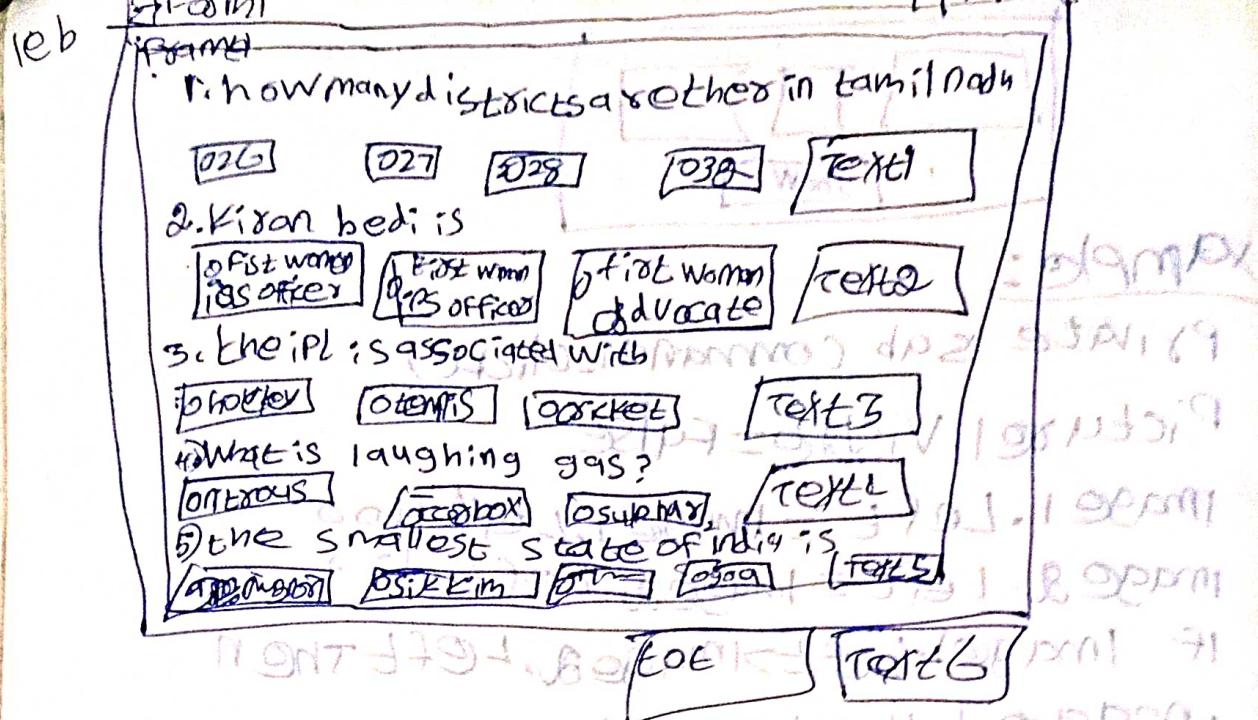
End Sub

Call Dll("GDI32.dll", "GetDeviceCaps", 0, 24)

POINT TO POINT=51104&H=0x00000000

b=DX97.1

c=DX97.1



```

Private Sub Example_Drag_Drop()
Private Sub Option1_Click()
d = 0
s = 0
If Option1.Value = True Then
    Text1.Text = d
Else
    Text1.Text = s
End If
End Sub
Private Sub Option2_Click()
d = 0
s = 0
If Option2.Value = True Then
    Text1.Text = d
Else
    Text1.Text = s
End If
End Sub

```

```

Private Sub Option3_Click()
d = 0
s = 0
If Option3.Value = True Then
    Text1.Text = d
Else
    Text1.Text = s
End If
End Sub

```

```

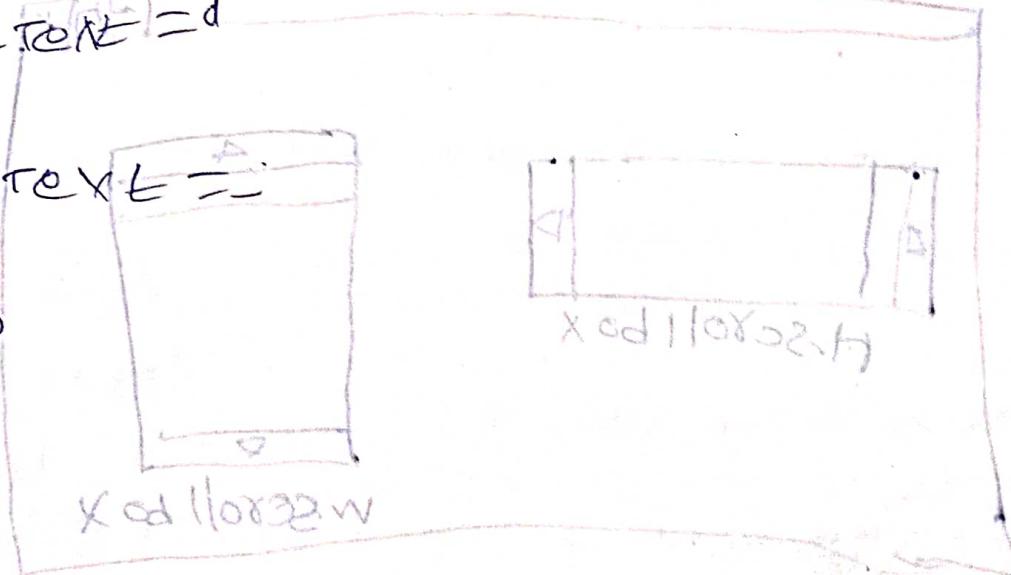
If Option3.Value = True Then
    Text1.Text = d
Else
    Text1.Text = s
End Sub

```

Private sub option4\_click()
   
 $d = 10$   
 $s = 0$   
 If option4.value = True Then  
 Text1.Text = d  
 Else  
 Text1.Text = s  
 End If

Private sub command1\_click()  
 $a = Val(Text1.Text)$   
 $b = Val(Text2.Text)$   
 $c = Val(Text3.Text)$   
 $d = Val(Text4.Text)$   
 $e = Val(Text5.Text)$   
 $tot = a + b + c + d + e$   
 Text6.Text = tot

Private sub option10\_click()
   
 $d \neq 0$   
 $s = 0$   
 If option10.value = True Then  
 Text3.Text = d  
 Else  
 Text3.Text = s  
 End If



20B.7.005/68926

## QB Colors:

QB - Quick Based Colors

Total = 16 (0 to 15)

GS:

controlname, backcolor/forecolor/ibcolor  
(0, 1, 2, 3, ..., 15) is its mapping to dnu colors

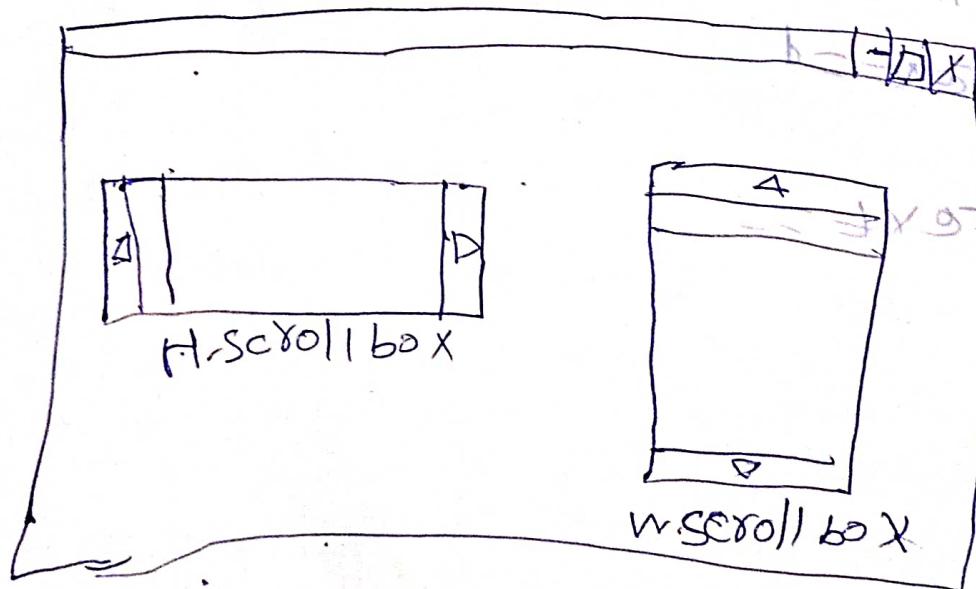
scroll bars:

Type:

1. horizontal scrollbar
2. vertical scrollbar

Properties:

- => name
- => index
- => width
- => height
- => visible
- => tabindex



event:

- => scroll changes

## example

```
Private Sub HScroll1_Change()
Form1.BackColor = QBColor(Rnd * 15)
End Sub
```

## Timer:

used when want to run program after some time

### Properties:

- name

- Visible

- Interval (Fast Run 0-10000 ms, Slow Run 0-100000 ms)

### Event:

- timer

ex:-

```
Private Sub Timer1_Timer()
Form1.BackColor = QBColor(Rnd * 15)
End Sub
```

## Line Shape

to draw the line shape

- to draw the line shape

Properties:

→ Y1	→ bordercolor
→ X1	→ borderstyle
→ X2	→ borderwidth
→ Y2	

### Line control

A event ~~function~~ method BlockShape Run

void ~~run~~ ( )

ex:-

```
Private Sub Timer1_Timer()
Line1.Bordercolor = QBColor(Rnd * 15)
End Sub
```

```
Line1.Bordercolor = QBColor(Rnd * 15)
```

End Sub

@X = 2

```

Private Sub Timer1_Timer()
If Line1.BorderStyle = 6 Then
    Line1.BorderStyle = 0
Else
    Line1.BorderStyle = Line1.BorderStyle + 1
End If
End Sub

```

Shape

- name
- backcolor
- backcolor
- backstyle
  - ⇒ 0. transparent
  - ⇒ 1. opaque
- borderstyle
- ⇒ border style
- ⇒ shape

0. rectangle 4. rounded rectangle

1. square 5. rounded square

2. circle

3. oval

Event handling, method, property, body & VB

Run visual basic

ex

```

Private Sub Timer1_Timer()
Shape1.Left = Shape1.Left + 10

```

```

Shape1.BackColor = RGB(Rnd * 15)

```

End Sub



Private sub TimeX (TimeX)

$$\text{Frame1\_left} = \text{Frame1\_left} + 10.0 \sin(\theta)$$

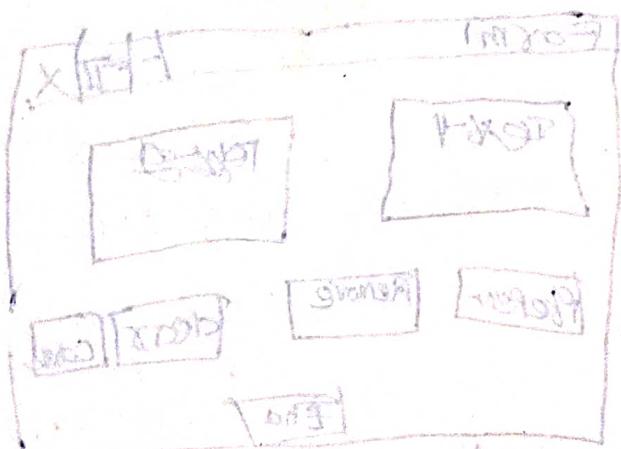
Shape 1 - Backcolor=QColor(Rnd\*15)

frame 2. Left = frame 1. Left - 10

Shape.BrickColor = 3230108 (Rnd \* 15)

End Sub

Wade sitting on most roads - xebni + zil



## Listbox

⇒ add the more than one items  
in same time

### Properties:

⇒ Name

⇒ Style

0. transparent

1. checkbox

⇒ Visible

⇒ Width

⇒ Height

⇒ Index

method:

⇒ Add item = add the values for the listbox

⇒ Remove item = selected item will be removes

⇒ List Count — count the no. of items

⇒ Clear — clear the all items

⇒ List index — total items will be show

### Event:

⇒ Click event

ex :-

```
Private Sub Command1_Click()
```

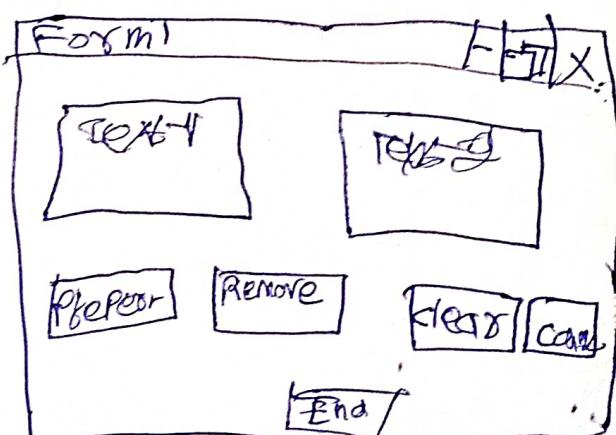
```
    List1.AddItem List1.Text
```

```
End Sub
```

```
Private Sub Command2_Click()
```

```
    List2.RemoveItem List2.ListIndex
```

```
End Sub
```



~~Private sub command 3 - click()~~

~~List2.Clear~~

~~End Sub~~

~~Private sub command 4 - click()~~

~~a = List2.ListCount~~

~~MsgBox "Total = " & a~~

~~End Sub~~

~~Private sub commands click()~~

~~End~~

~~End Sub~~

~~Private sub Form\_Load()~~

~~List1.AddItem "Apple"~~

~~List1.AddItem "Orange"~~

~~List1.AddItem "Grapes"~~

~~List1.AddItem "Mango"~~

~~List1.AddItem "Banana"~~

~~List1.AddItem "Honeyicks"~~

~~List1.AddItem "Boost"~~

~~List1.AddItem "Complane"~~

~~End Sub~~

Combo box

Add the number of

item in same time

Properties:

Name

List (List the combobox)

Visible

Text

Method:

AddItem

RemoveItem

Clear (F12 or F5)

71 An 3

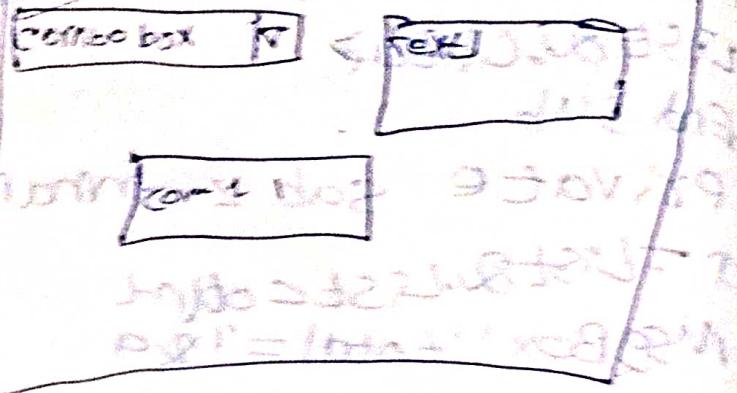
F = F12 or F5

Clear

## event

change

combobox + button



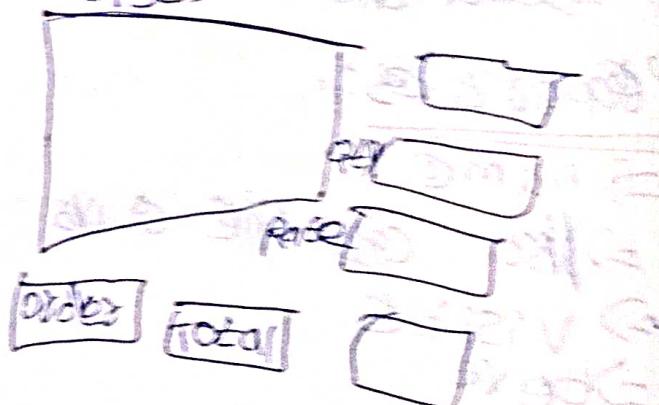
ex:

```

Private sub Command1_Click()
If combobox.Text = "sunday" Then
    text1.Text = "Sunday"
ElseIf combobox.Text = "Monday" Then
    text1.Text = 2
ElseIf combobox.Text = "Tuesday" Then
    text1.Text = 3
ElseIf combobox.Text = "Wednesday" Then
    text1.Text = 4
ElseIf combobox.Text = "Thursday" Then
    text1.Text = 5
ElseIf combobox.Text = "Friday" Then
    text1.Text = 6
Else
    text1.Text = 7
End If

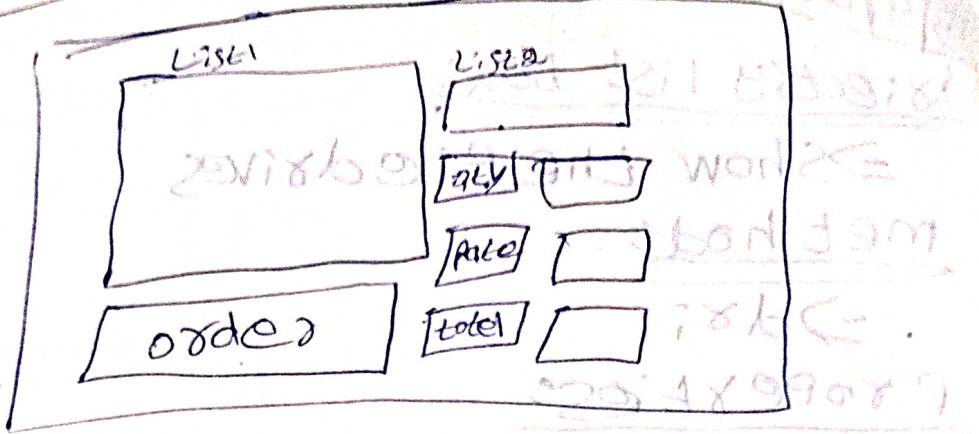
```

get the status



get the status

Feb 2018



Private Sub Form\_Load()  
List1.AddItem "apple"  
List1.AddItem "orange"  
List1.AddItem "graphs"  
List1.AddItem "Mango"  
List1.AddItem "banana"  
List1.AddItem "Boost"  
Private Sub Command1\_Click()  
List2.AddItem List1.Text  
End Sub

Private Sub Command2\_Click()  
Q=Text1.Text  
R=Text2.Text  
Tot=Q\*R  
Text3.Text=Tot

15/4/2019

## directory list box:

⇒ Show the file drives

### method:

⇒ dx;

list

list

source

### properties:

⇒ name

⇒ visible

## directory list box:

⇒ Show the system folder

### method:

⇒ path

⇒ dir

### properties:

⇒ name

⇒ visible

⇒ height

⇒ width

## file list box:

⇒ Show the system files

### method:

⇒ file name

⇒ path

⇒ file

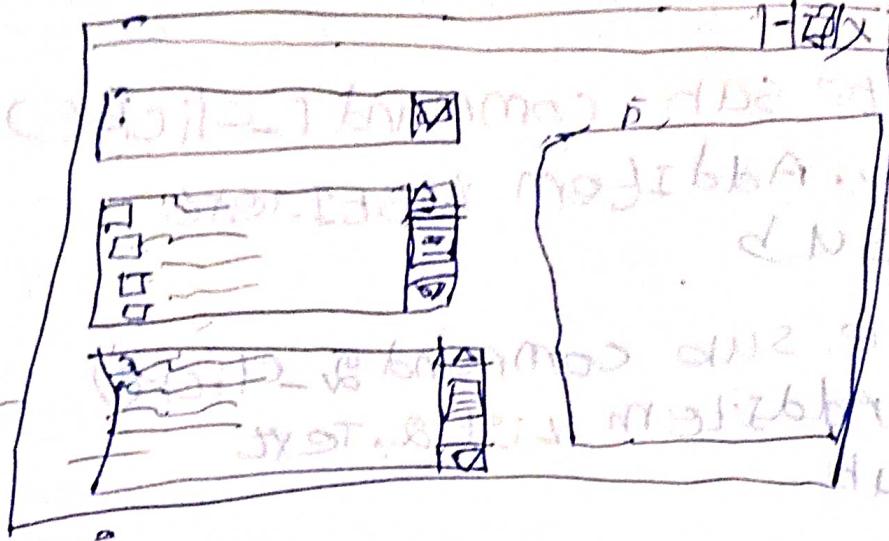
### properties:

⇒ name

⇒ visible

⇒ height

⇒ width

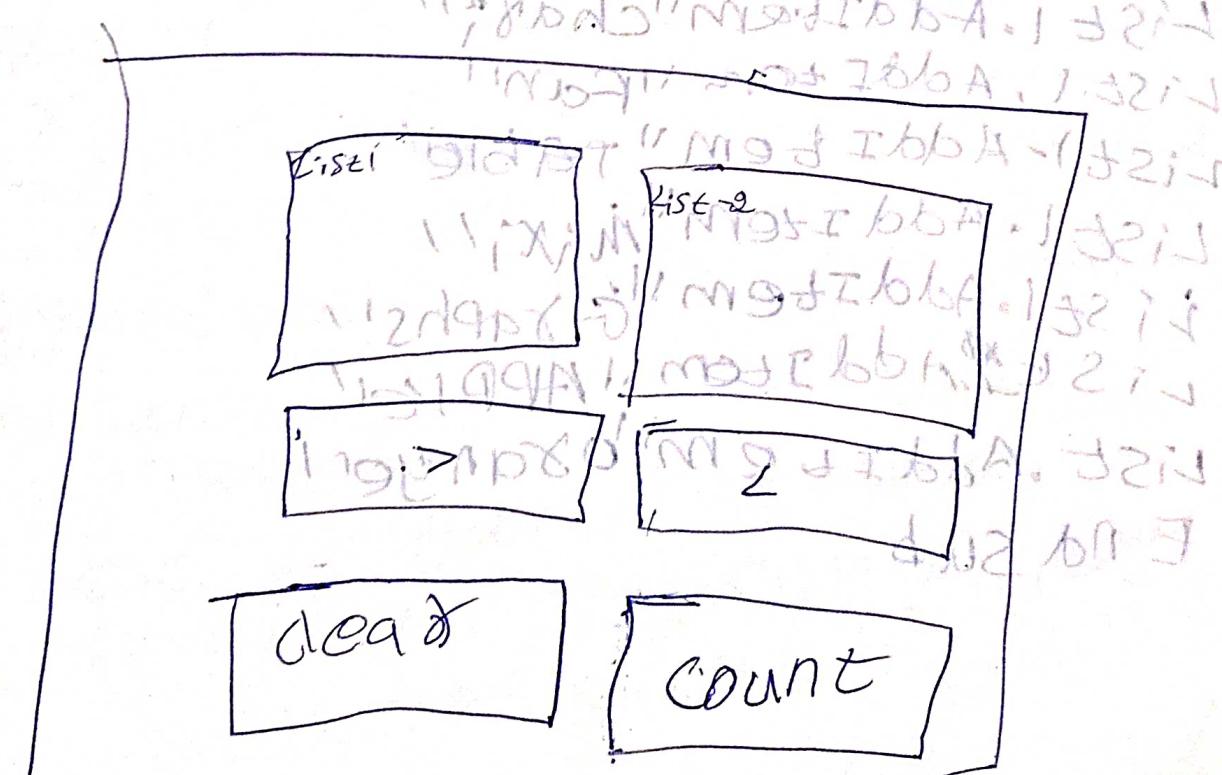


Example:

```
Private Sub Drive1_Change()
    File1.FileName = Drive1.Path
End Sub
```

```
Private Sub Drive1_Change()
    Drive1.Path = Drives.Drives(1).Path
End Sub
```

```
Private Sub File1_Click()
    Picture1.Picture = LoadPicture
    (File1.Path & "1" & File1.FileName)
End Sub
```



Private sub command1\_Click()  
List2.AddItem List1.Text  
End sub

Private sub command2\_Click()  
List1.AddItem List2.Text  
End sub

Private sub command6\_Click()  
List1.Clear  
List2.Clear  
End sub

Private sub command7\_Click()  
A = List1.ListCount  
B = List2.ListCount

MsgBox "LIST1 VALUES = " & A

MsgBox "List2 VALUES = " & B

End sub

Private sub Form\_Load()

List1.AddItem "chay"

List1.AddItem "fan"

List1.AddItem "table"

List1.AddItem "mix"

List1.AddItem "graphs"

List1.AddItem "apple"

List1.AddItem "orange"

End sub

1b 4/18/19

## Graphics:

⇒ Circle

⇒ PSet

⇒ Line

⇒ CLS

## Circle

• set the circle for the project

gf:

```
Private Sub Form_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
```

```
Form1.Circles(100, 150), 100, vbColor(Rnd * 15)
```

```
Form1.BackColor = vbBlack
```

```
End Sub
```

ex:

```
Private Sub Form_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
```

```
(Button As Integer, Shift As Integer, X As Single, Y As Single)
```

a = X

b = Y

```
Form1.Circles(X, Y), 100, vbColor(Rnd * 15)
```

```
End Sub
```

ex: ~~Private Sub Form\_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)~~

```
Private Sub Form_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)
```

```
For S = 100 To 1000 Step 1
```

Form1.Circle(x, y), S, QBColor(Rnd \* 15)

Next

End Sub

Line

→ set the line

gf:

ControlName.Line(x1, y1) - (x2, y2) ColorName

@ Example:

Private Sub Form\_MouseMove

Button AS Integer, Shift AS Integer,

X AS Single, Y AS Single)

Form1.Line(1800, 1500) - (1500, 1400),

QBColor(Rnd \* 15)

End Sub

Ex:

Private Sub Timer1-Timer()

Form1-Line(600, 6800) - (400, 1500),

QBColor(Rnd \* 15)

End Sub

Set:

ControlName.PSet(Value) ABC Color

Private Sub Form\_MouseMove(Button

AS Integer, Shift AS Integer, X AS Single,

Y AS Single)

Form1.BackColor = vb Black

Form1.PSet(X, Y), QBColor(Rnd \* 15)

End Sub

Click: Form\_Click()

Private Sub Form\_Click

Form1.Cls

End Sub

~~Private Sub Form MouseMove(Button~~  
AS Integer, Shift AS Integer, X AS  
Single, Y AS Single  
Form1.BackColor = vb Black  
Form1.PSet (X, Y), QBColor(Rnd \* 15)

~~End Sub~~

Job work

Private Sub Form\_DblClick()  
For S = 10 To 1000 Step 1  
Form1.Circle(700, 800), S, QBColor(Rnd \* 15)  
Next  
For S = 10 To 1000 Step 1  
Form1.Circle(-20, 9040), S, QBColor(Rnd \* 15)  
Next  
For S = 10 To 1000 Step 1  
Form1.Circle(19060, -30), S, QBColor(Rnd \* 15)  
Next  
For S = 10 To 1000 Step 1  
Form1.Circle(8995, 9000), S, QBColor(Rnd \* 15)  
Next  
For S = 10 To 1000 Step 1  
Form1.Circle(9000, 14000), S, QBColor(Rnd \* 15)  
Next  
End Sub

①



text

size

style

weight

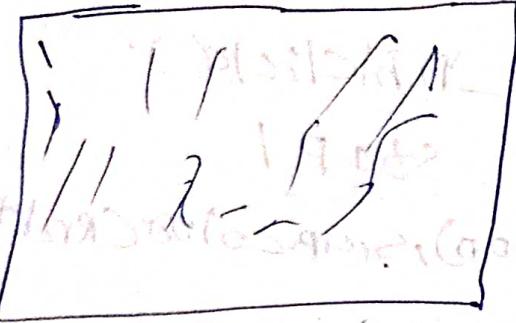
font

bold

italic

underline

②



ab < 0.0

① Private sub Form\_Load()

For s = 1 to 100 Step 2

List 1.Add Item "Times New Roman"

Next

List 2.Add Item "calibri"

List 2.Add Item "Cambria"

List 2.Add Item "Aachen"

List 2.Add Item "Arial"

List 2.Add Item "Broadway"

List 2.Add Item "Castellar"

List 2.Add Item "Script MT"

List 2.Add Item "Segoe Print"

List 2.Add Item "Perpetua Titling MT"

List 2.Add Item "SUNDARAM"

End Sub

```
Private Sub List1_Click()
    Text1.Font.Size = List1.Text
End Sub

Private Sub List2_Click()
    Text1.Font = List2.Text
End Sub

Private Sub Option1_Click()
    If Option1.Value = True Then
        Text1.Font.Bold = True
    End If
End Sub

Private Sub Option2_Click()
    If Option2.Value = True Then
        Text1.Font.Italic = True
    End If
End Sub

Private Sub Option3_Click()
    If Option3.Value = True Then
        Text1.Font.Underline = True
    End If
End Sub
```

- data: disconnect the one software to another due to one software and backend software  
⇒ it is frontend and backend software  
Properties:  
⇒ database Name  
⇒ record source due to  
connected software: (ov. India)  
⇒ SQL server  
⇒ access

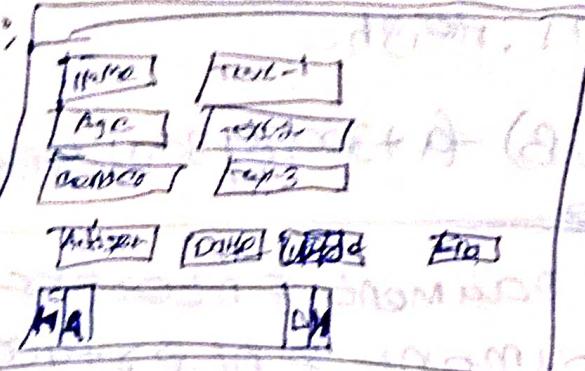
How to create the new table?  
⇒ click the add ins menu  
⇒ click the visual data manager  
⇒ then box will be appear  
⇒ click the file menu  
⇒ click the new ⇒ Microsoft ACCESS  
    ⇒ Version 7.0 MDB  
⇒ box will be appear  
⇒ type the database name (e.g. data) - II  
⇒ the right click on the Properties  
⇒ click the new table  
⇒ another one box appear  
⇒ type the database name  
    ⇒ click the build the table  
    ⇒ click the build the table  
    ⇒ then add the field name and select  
        the data type  
    ⇒ then right click once the table  
    ⇒ click the open options  
    ⇒ box appear

⇒ TYPE the information ⇒ click

update options

⇒ then click the all box

Design:



Data source properties button Data Source  
Save Data File Open

Text Properties date

buttonfield

ex: recordset

Private Sub Command1\_Click()

data1.Recordset.AddNew

Text1.Text = "

Text2.Text = "

Text3.Text = "

End Sub

Private Sub Command2\_Click()

Data1.Recordset.Delete

Msg Box "Record was deleted"

End Sub

Private Sub Command3\_Click()

Data1.Recordset.Update

Msg Box "One data added"

End Sub

Private Sub Command4\_Click()

End

Private Sub Time2() - Timea( )

`q = Rand * room1.Width`

$$b = R \Delta d_{\text{form}} \cdot \text{height}$$

From 1 Line (a, B) - (A + 300, B + 300), QBCD is a CRG

MD I⇒ mother document footer

→ Multi Document Interface

⇒ Run the model then define form for  
run time

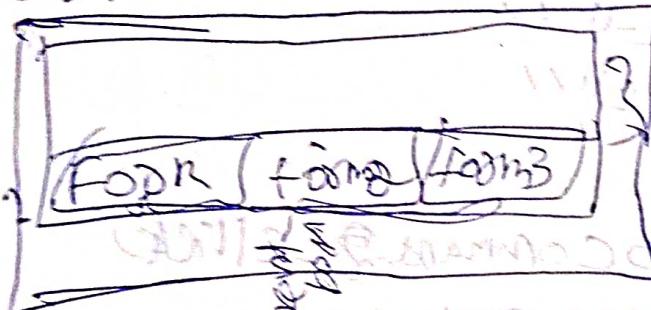
Jan time

Now control of various objects use Local Control  
timer and Pictures are controlled by local control  
function. Local control of objects use Local Control  
how to trace the MIDI Form

how to trace the MDI Form

→ click the projection menu and saving

⇒ Click on MDI Form



~~Ex~~ Page 10

Private Sub Command1\_Click()

form/Show संकेतन/प्रदर्शन करना

form), Back-color = #B60108 (Red)

End 59b due 6/23

private Sub ~~Sub~~ ~~Command1~~ (Click)

Edm~~s~~, Show

FORM8 BACK COLOR = QBLCOLOR(CRND \* 15)  
 End Sub  
 Private Sub Command3\_Click()  
 Form3.Show  
 Form3 Back Color = QBLCOLOR(CRND \* 15)  
 End Sub

Name: Name of voter  
 age -> 18 above not eligible  
 for role

[OK]  [Cancel]   
 form8-Show

MSG box → Eligible for

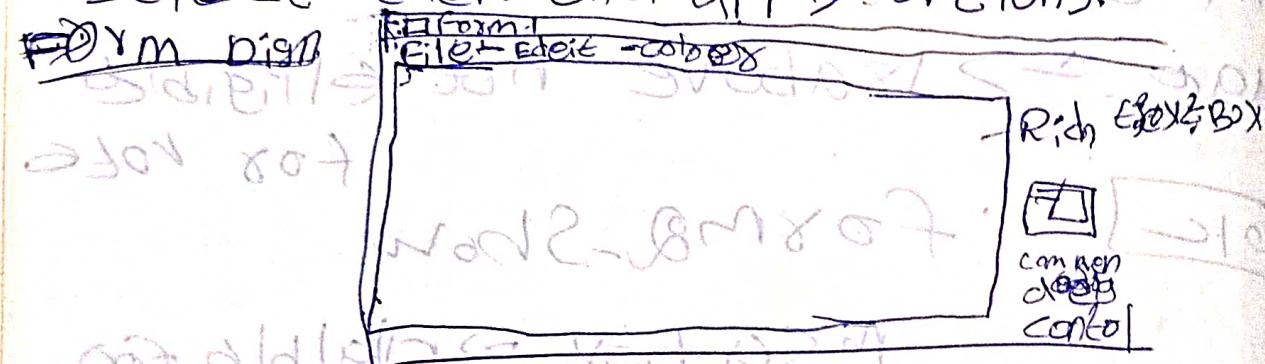
Document interface

## Menu Creation:

- ⇒ Create the new software
- ⇒ menu creation using controls?
- 1. Microsoft common Dialog control
- 2. Microsoft Rich Text Box

How to take this controls?

- ⇒ click the Project menu
- ⇒ click the Components options
- ⇒ a box will appear
- ⇒ Select the Rich Textbox and Common dialog control
- ⇒ Select then click apply options.



## Common dialog control properties:

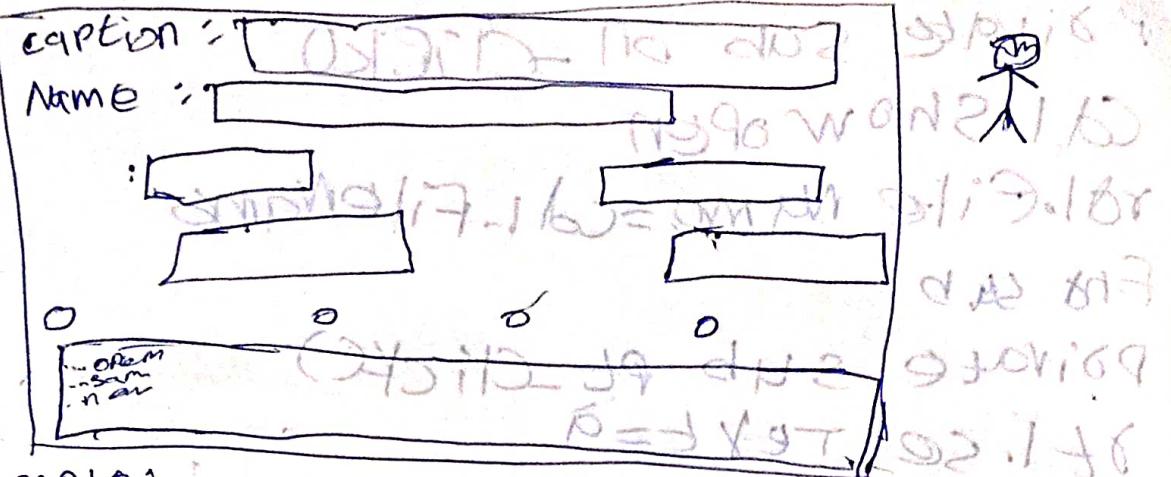
- ⇒ Show Open
- ⇒ Show Save
- ⇒ FileName
- ⇒ Color

## Rich Textbox Properties:

- ⇒ FileName
- ⇒ SelColor
- ⇒ BackColor

## How to create the menu?

- ⇒ click the Tools menu
- ⇒ click the menu editor options
- ⇒ menu creation box appear
- ⇒ type the file name



Example:

```
Private sub bc-click()
    DM.ShowColor
    RT1.BackColor = CD1.Color
End Sub
```

```
Private sub CP_Click()
    a = RT1.SelText
End Sub
```

```
Private sub CT_Click()
    a = RT1.SelText
    RT1.Text = " "
End Sub
```

```
Private sub ET_Click()
End
End Sub
```

```
Private sub FC_Click()
    ED1.ShowColor
    RT1.SelColor = CD1.Color
End Sub
```

```
Private sub NW_Click()
```

```
    RT1.Text = " " & ED1.Text & " " & CD1.Text
End Sub
```

Private sub on -CLICK

cd1.showopen

rd1.filename = cd1.filename

End sub

Private sub pt-click()

dt1.settext=a

End sub

Private sub se-click()

cd1.showsave

dt1.savetext(cd1.filename)

End sub

Feb work:

Name	Text
Age	re-2
Fareed	re-3
OK	

Program

PRIVATE SUB COMMAND1-CLICK

a=val (text1+text2+text3)

b=val (text4+text5+text6)

IF a>=18 Then

Form1.show  
msg box "eligible for vote"

ELSE  
msg box "not eligible to vote")

Final step in creating the exe file  
End Sub

8/14/2019

### Package:

is a collection of files required to run the application  
Windows Package

EXE filename,

EXE-Executable File

exe software Run Windows  
exe file name

steps

⇒ Create the Program  
⇒ Check the error correction  
⇒ Save the form and project

How to create the exe filename?

⇒ Click the file menu  
⇒ Click the make Project 1.exe  
⇒ Box appear  
⇒ type the exe filename

⇒ Click options due saving

How to create the package?

⇒ Create the programs  
⇒ Then set the exe file name for  
the project  
⇒ Then click the add-ins menu  
⇒ Click the package and deployment  
wizard  
⇒ Then tick the loaded/unload options  
⇒ Click OK options

- ⇒ then click the add-ins menu
- ⇒ click the package and deployment wizard
- ⇒ box will appear
- ⇒ click yes
- ⇒ click package box
- ⇒ click yes
- ⇒ click next, next, next, next, next
- ⇒ click next, next, next, then click finish
- ⇒ then click next, next, next, then click finish options

how to install the project?

- ⇒ open the location
- ⇒ open the folder
- ⇒ click the package folder
- ⇒ double click on the setupfile (applicationfile)
- ⇒ click the yes
- ⇒ click computer icons
- ⇒ click the ok

Ex: form1.   
 Private sub Form\_Click()   
 form1.Circle(x, y), vbBlack

End sub

Private sub Form\_MouseMove(Button As Integer, Shift As Integer, X As Single, Y As Single)

End sub

## RGB color

RGB - Red Green Blue (Mixed color)

R value (0-255) total - 226

G value (0-255) total - 226

B value (0-255) total - 226

g5;

Defining a color in VB  
Color = RGB(Red color value, Green value,

= RGB(Red color value, Green value,  
Blue value)

### Ex. Example:

Private Sub Form\_Click()

Form1.BackColor = RGB(222, 100, 150)

End Sub

Private Sub Text4\_Change()

Dim a As Valuetext

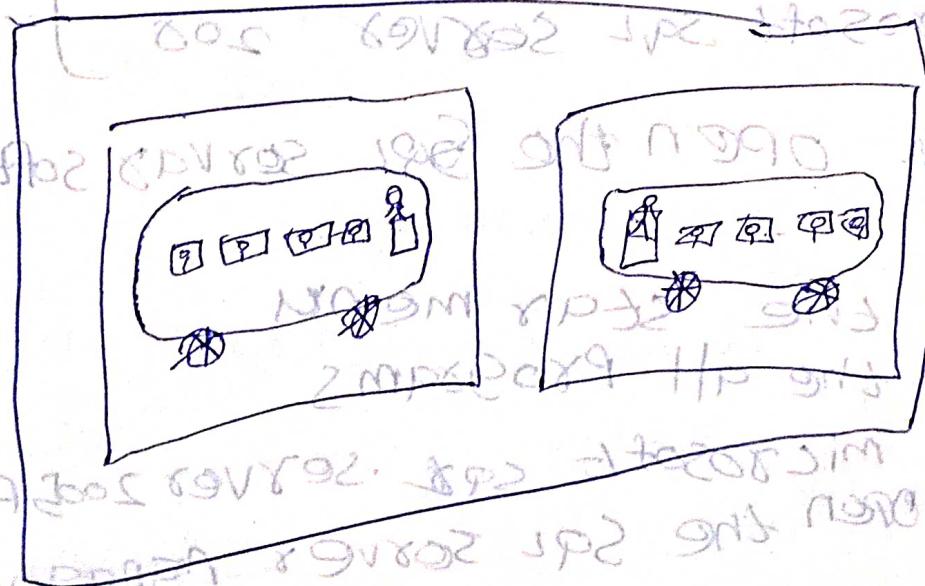
b = Valuetext1.Text

c = Valuetext2.Text

Text4.BackColor = RGB(a, b, c)

End Sub

Work



## SQL SERVER

SQL - Server query language

### use

⇒ Create the password format for the systems

⇒ Creates the database and store the number of informations

### advantages

⇒ It is software

⇒ It is application software

⇒ It is package software

⇒ Developed by Microsoft company

⇒ First Developed By ANSI

⇒ → American National Standard Institute

### Version

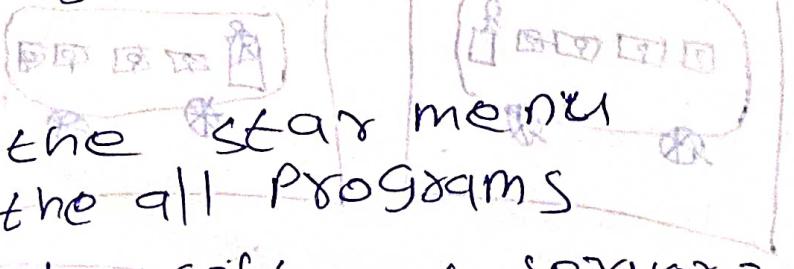
⇒ Microsoft SQL Server 2003

⇒ Microsoft SQL Server 2005

⇒ Microsoft SQL Server 2008

How can open the SQL server software

### way 1 :-



⇒ Click the start menu

⇒ Click the all programs

⇒ Click Microsoft SQL Server 2005 folder

⇒ Click to open the SQL Server Management

Studio Express

## SQl Server

date

~~silver eye~~

Owner's Name

several names  
- bi-national autonomy

## Authenticating

Login  ~~Logout~~

pairing nodes

found 182

way a:

~~Click the start menu~~

⇒ a search box prior

⇒ type the SQL Server management studio Express

$\Rightarrow$  process enters loop

way 3.

May 3: SESSION  
ED Double click on the SQL software icons

## NOTES:

$\Rightarrow$  It is Non-case sensitive  
It is External and Backend software

⇒ It is Non-case sensitive  
⇒ It is Frontend and Backend Software

~~is too~~  
also base

at a base: collection of information called data base

Type of database:

→ PBM S

$\Rightarrow RDBM S$

## D BMS :-

DBMS: Data base management system  
A software to

⇒ can't connect the one software  
with one: software good Dsp q

another one -  
one more time

ex:

$\Rightarrow \text{Excl} \phi$

~~Exhibit A~~ ~~Exhibit B~~ ~~Exhibit C~~ ~~Exhibit D~~ ~~Exhibit E~~ ~~Exhibit F~~ ~~Exhibit G~~

Yodava, 10 Nov

## RDBMS:

- ⇒ Relational Database Management System
- ⇒ connect the one software to another one software

ex: SQL Server, Visual Basic, etc

## SQL Language

- ⇒ DDL
- ⇒ DCL

### DCL

⇒ Data Control Language

DDL ⇒ Data Definition Language

### Query:

- ⇒ Create
- ⇒ Alter
- ⇒ Insert
- ⇒ Update
- ⇒ Select
- ⇒ Delete

DATA BASE Creation

SQL helps to create database, drop a base or  
create a database

### Default Data base:

- ⇒ master
- ⇒ model
- ⇒ msdb

tempdb

### Data base creation rules:

- ⇒ first must start in letter when use the number
- ⇒ not allowed the keyword and symbols

⇒ only allowed for underscored symbols...)

ex:

→ database information

→ use information

~~start~~

:90 / MySQL  
\* - + .



CREATE TABLE

:90 / MySQL  
\* - + .

23/4/2019

Table:

⇒ number of rows and columns called table

create table tablename(fieldname, datatype,  
fieldname, datatype)

Datatype:

⇒ follow field name

size of data value

float, double, date

Datatype:

integer - number

char - letters

varchar - letters and numbers

double - pointed values

date time - date and time

## Select

↳ Table row values or views  
Utilizes SQL query language to select  
select \* from tableName

- Operators:
  - ⇒ Arithmetic OP
  - ⇒ Logical OP
  - ⇒ Relational OP

### Arithmetic OP:

a. +, -, \*, /, %

### Logical OP:

and, or, between, not between, in, like, ifnull,  
is not null

### Relational operators:

<, >,  $\leq$ ,  $\geq$ , =

### insert:

⇒ insert the values for the table name

g.e.: insert into table name

insert the values for all field.

g.e.:

insert into tableName values

(values, values, values)

insert the values from particular field

g.e.:

insert into tableName (Field Name)  
Field Name) values (Value1, Value2, Value3)

g.e. insert into student values (101, "Smith", "John")

alter:

add

drop

change datatype

change datatype:

columnname

alter table tablename alter filed

name datatype

add

constraint

foreign

primary

key

alter table tablename add fieldname

drop:

drop column

alter table tablename drop column  
columnname

example: create database xyz  
use xyz

-- create database xyz

-- alter table data (sno,int,sname)

-- create table data (sno,int,sname)

-- gender char(2),fathername char(20),

-- select \* from data

-- insert into data values(1,'Rakesh','

-- 'Female','Kumar')

-- select \* from data

-- insert into data (sname,gender) values

-- ('John','Male')

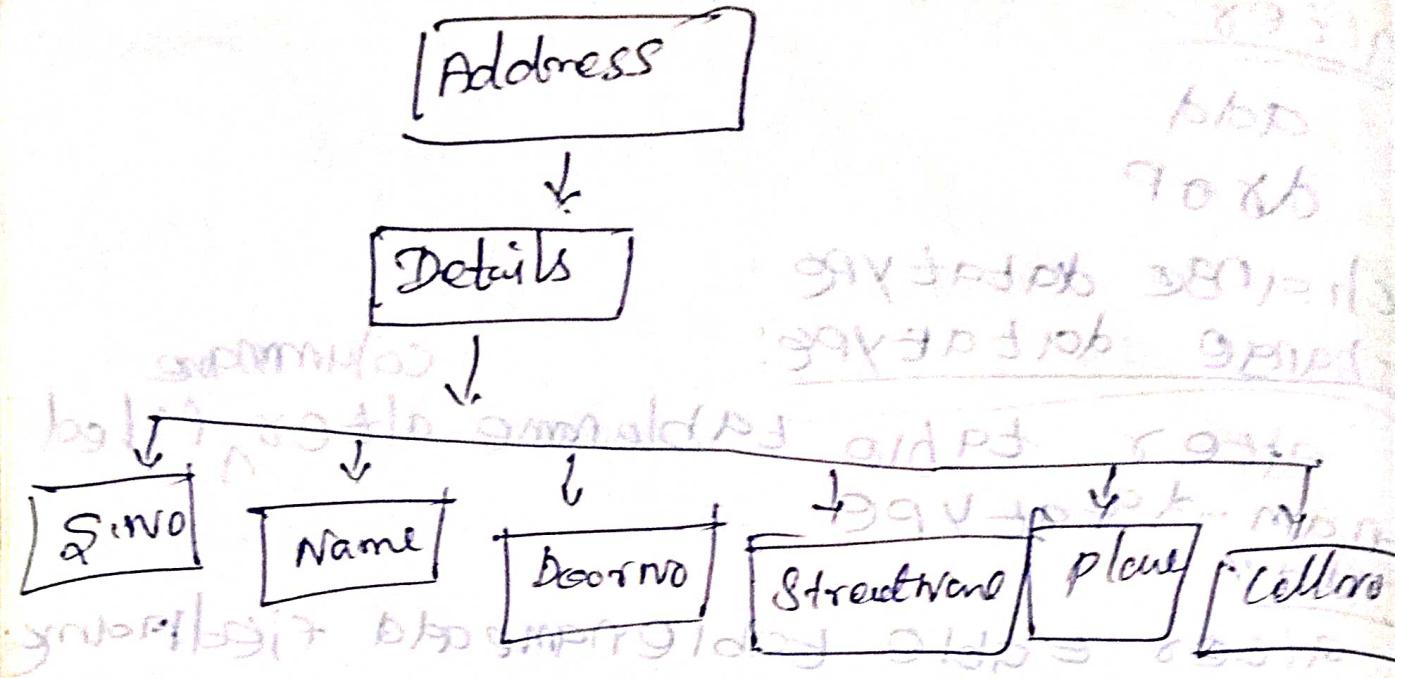
-- select \* from data

-- alter table data add sno int

-- select \* from data

-- alter table data alter column

-- collno varchar(20)



Insert Five Records

View the Details.

- Create database address
- use address
- create table data(Sno int, Name char(20),  
DoorNo int, StreetName char(20), Place  
(char(20)) cellno varchar(20))
- select \* from data
- insert into data values

(1, 'John', 123, 'Main St', 'New York', 123456789)

(2, 'Mike', 456, 'Highway 1', 'Los Angeles', 123456789)

(3, 'Sarah', 789, 'Residential', 'Chicago', 123456789)

(4, 'David', 567, 'Commercial', 'Houston', 123456789)

(5, 'Emily', 987, 'Industrial', 'Phoenix', 123456789)

(6, 'Olivia', 234, 'Residential', 'Seattle', 123456789)

update

- Remove the null values
- Calculations
- Remove redundant information

gf:

```
update tablename set columnname = values or calculation
```

where: (optional)

→ check the condition then add the values for field

lgs:

```
update tablename set columnname = values where condition
```

example:

```
- use info
- create table 1sem(sno int, sname char(20), pmark int, tmark int)
- select * from 1sem
- insert into 1sem values(1,'Amutha',20,60)
- insert into 1sem values(2,'Balu',18,50)
- insert into 1sem values(3,'Kumaram',15,70)
- insert into 1sem values(4,'Prabha',19,40)
- insert into 1sem values(5,'Leatha',18,40)
- select * from 1sem
- alter table 1sem add totalling
- select * from 1sem
- update 1sem (set total) = pmark + tmark
- select * from 1sem
- alter table 1sem add grade char(2)
- select * from 1sem
```

-- update 1sem set grade = 'A' where  
-- select \* from 1sem  
-- update 1sem set grade = 'B' where  
-- select \* from 1sem  
-- select \* from 1sem  
Select query:

select fieldname from tablename

Select query using logical operators:

is null

select \* from tablename where fieldname is null

OR null value is present in records

is not null

select \* from tablename where fieldname

is not null

Between values and values

select \* from tablename where fieldname

between values and values

not between values and values

select \* from tablename where fieldname

not between values and values

In: values or values

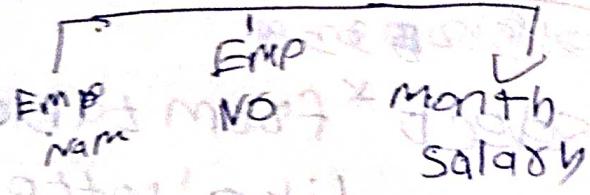
select \* from tablename where

fieldname in (values, values)

# Lab work

## EMPdetails -> company

Insert five records  
Add ATM card field  
month salary > 40000



yes'

< 40000 No

is atm card

- Create database empdetails

- USE empdetails

- Create table company(ename char(20),  
emp.no int, month salary varchar(20))

- Select \* from company

- insert into company values('sakthi', 11, 60000)

- insert into company values('msubash', 12, 40895)

- insert into company values('munni', 13, 89676)

- insert into company values('sathish', 14, 327660)

- insert into company values('grun', 15, 234555)

- Select \* from company

- alter table company add atmcard varchar(20)

- update company set atmcard='yes' where

month salary >= 10000

- select \* from company

- update company set atmcard='no' where

month salary <= 40000

- select \* from company

	ename	emp.no	month salary	atmcard
1	sakthi	11	60000	yes
2	msubash	12	40895	yes
3	munni	13	89676	yes
4	sathish	14	327660	yes
5	grun	15	234555	no

Q5/4/10

like: என்றால் .. %லேடு ஒரே நமை என்கிற  
எடுத்துவிடுகிறோம்

Select\* from tablename where fieldname  
like 'letters%' '%category'

delete:

→ delete only for records

if notes:

→ delete from full table records

if

delete from full tablename

delete for particular field:

if: என்றால் 'minimum amount' என்றால்

delete from tablename where fieldname

condition

example:

create table company (name char(20),

inst int, totalamount int)

-- insert into company values('Rajan', 13, 700)

-- insert into company values('Sathi', 12, 5000)

-- insert into company values('Aravindh', 3, 4000)

-- insert into company values('Mono', 4, 15000)

-- insert into company values('Santhiya', 12, 3000)

-- alter table company add inamount int

-- alter company set inamount = totalamount \* inst / 10

-- alter table company add balance int

-- update company set balance = totalamount - inamount

- alter table company add paidamount int,  
date date time
- update company set paidamount = 7000
- update company set paidamount = 5000
- select \* from company where paidamount is null
- select \* from company where paidamount is not null  
between 500 and 1000
- select \* from company where amount  
not between 500 and 1000
- select \* from company where amount in  
(200, 1000)
- select \* from company where sname like  
sname like ('%')
- select \* from company

Stock name, qty, Rate

inserts Records simple program

add Total Discount

calculate total discount, 5%

Work @ home, calculate total discount

-- Create database sa

-- use sa

-- Create table sa (stockname char(20),  
qty int, rate int)

-- insert into sa values('apple', 3, 35)

-- insert into sa values('orange', 6, 25)

-- insert into sa values('grapes', 5, 2)

-- insert into sa values('mango', 4, 10)

-- insert into sa values('banana', 6, 5)

-- alter table sa add total int  
 -- update sa set total = qty \* rate  
 -- alter table sa add discount int  
 -- update sa set discount = total \* 5/100  
 select \* from sa

stockname	qty	rate	total	discount
apple	3	35	105	5
orange	6	25	150	7.5
grapes	56	8	448	22.4
mango	4	10	40	2
banana	6	5	30	1.5

select into

gf:

select fieldname,fieldname into  
newtableName from oldtableName

truncate:

→ table, column Record, speed  
record, Record number  
filed name, table name  
gf:

truncate table tablename

drop:

→ table, filed, Record, droping  
drop, drop, drop, drop, drop, drop

create

create table 1sem(sname char(20),  
sno int,8011no varchar(20) it or al mark is 0%)  
-- select \* from 1sem

-- select from Asem  
-- insert into Asem values ('ASHOK', 101, 100, 556)  
-- insert into Asem values ('Praveen', 102, 100, 556)  
-- insert into Asem values ('Praveen', 103, 100, 556)  
-- insert into Asem values ('Naveen', 103, 100, 556)  
-- select from Asem  
-- delete from Asem where totalmark = 100  
-- select sname, colno into SAKTHI from Asem  
-- truncate table Asem  
-- drop table SAKTHI;  
-- select from SAKTHI order by colno;

### Constraint:

⇒ check the condition then add the values for the field

Type:

- ⇒ Primary key
- ⇒ Unique key constraint
- ⇒ check constraint
- ⇒ Default constraint
- ⇒ Foreign key constraint
- ⇒ table constraint
- ⇒ field constraint add constraint A546
- ⇒ triggerable constraint add filed
- ⇒ trigger constraint add constraint A547
- ⇒ primary key constraint

## Primary Key

⇒ Null values are not allowed in primary key  
 Primary key is a combination of  
unique fields.

Create table tableName (fieldName  
 datatype, fieldName datatype  
 constraint constraintName primary key)

Ex:-

-- Create table Person (id int  
 constraint PKS Primary Key, Age int)

-- insert into Person values ('Deepak', 23)

--

--

-- Insert into Person (Age) values (23)

-- in

values (29thak, 23)

-- select \* from Person

27/4/19

unique constraint allows  
 null values and duplicate values

In table add constraint  
 but only one allowed the null  
 or one value

Duplicate values are not allowed in unique constraint

but if

Create table tableName (fieldName  
 datatype, fieldName datatype  
 constraint constraintName unique)

constraint constraintName unique

ex:

-- create table unk8(cename char(20),eno int,  
-- and add primary key constraint(pk unique);  
-- select \* from unk8

-- insert into unk8 values('sakshi',11)  
-- insert into unk8 values('Arun',111)  
-- insert into unk8(cename) values('sothsh')  
-- select \* from unk8  
-- insert into unk8(cename)values('kumar')  
-- insert into unk8 values('Aswin',122)  
-- select \* from unk8

deflt:

Default constraints are also DCL

(allowing default value)

(i.e. Null values add as 0 or 000)

default values are added by DBMS

Default constraint before

gf:

Create table tablename(fieldname  
datatype fieldname datatype constraint  
constraintname default 'values')

ex:

create table sakthi(sname char(20),  
class char(20), sec char(20), cellno  
varchar(20) constraint m1 default  
'1234567890')

-- insert into sakthi values('sunder','X','A',  
-- values('chari','X1','B'))

-- select \* from sakthi;

Check constraint:  
⇒ check the condition, condition is true  
so insert the values for the field.

SS: create table tableName (fieldName datatype constraintName);

fieldname datatype constraint constraint name;

check (Condition);

Ex:-

-- Create table rajan (name char(8),

age int constraint ch1 check (age > 18))

-- insert into rajan values ('varun', 23)

-- insert into rajan values ('kavya', 11)

-- insert into rajan values ('VANKI', 50)

-- select \* from rajan

→ X X → 28

Employee, Empno, MonthSalary, Pwdy Select

From

ON (E.empno = D.empno) AND (M.month = D.month)

IN (M.MONTH = 'JULY') AND (D.MONTH = 'JULY')

(pwdy = 1)

AND (E.empno = 7839)

AND (M.MONTH = 'JULY')

(B.MONTH = 'JULY')

→ 14 more → 28/02 -

foreign key constraint: foreign table

exists

foreign key constraint:

→ foreign table will

longer unique values check (primary key)  
in set என்று முறையில் ஒரு record குறி  
refer வீடியில்.

→ ஏதும் table க்கு fields  
primary key அவ்வளவுக்கும் தொகை  
refer வீடியில்

create table tablename (fieldname  
datatype, field name datatype constraint  
constraint name foreignkey references  
tablename (field name))

Ex:

-- create table Aadarsh(ename char(20),  
eno char(20), course char(20)

constraint jki primary key, total\_fess int)

-- insert into Aadarsh.values('Haar', 111, 10000)

-- insert 111 / / C'sakthi', 112, 'DeA', 5800)

-- insert 111 / / (Rajan', 113, HDA, 9500)

-- insert 111 / / C'Prem', 114, 'Tally', 4800)

-- create table CO1 (jname char(20),  
eno int, jcourse char(20),

constraint fk foreign key  
references Aadarsh(course))

-- insert into col values ('DEEPAL', 156, 'DMG')  
-- insert into col values ('SATHI', 158, 'BCA1')  
-- insert into col values ('RAJAN', 159, 'BBIY')  
-- insert into col values ('RAJAN', 160, 'HDCAI')

-- SELECT \* FROM COL

-- INSERT INTO COL VALUES ('SEKAL', 183, 'HDP')

Sname collegename selected fees amount

SEKAL KUTTY COI 183 10000

set primary key (Sname) visonary

Insert Five Records.

Sname collegename courses Paid fees

$$2+3 = 2(2)(3)$$

$$4+9 = 19$$

$$13 = 18$$

forienkey (Collegename) in college

evene change

Change

click changes

cancel

# T-SQL

Transact Structure Query Language

use:

- ⇒ Run the more than one function in same time
- ⇒ use the condition and function

Function:

- ⇒ Mathematical Function
- ⇒ String Function
- ⇒ Date and Time Function

Mathematical Function

- ⇒ ABS
- ⇒ LOG
- ⇒ SIN
- ⇒ COS
- ⇒ TAN
- ⇒ PI()  $\Rightarrow \pi$
- ⇒ POWER  $\Rightarrow a^b$
- ⇒ SQRT  $\Rightarrow \sqrt{a}$
- ⇒ CEILING  $\Rightarrow \lceil a \rceil$
- ⇒ FLOOR  $\Rightarrow \lfloor a \rfloor$

gf:

Select functionname Values

Program:

```

-- Select ABS(-6)
-- Select SQRT(49)
-- Select LOG(4)
-- Select POWER(2,3)
-- Select PI()
-- Select CEILING(23.45)
-- Select FLOOR(45.83)

```

## String function:

- ⇒ len → mid
- ⇒ left → reverse
- ⇒ right → char
- ⇒ upper → ASCII
- ⇒ lower → str

ex:

- - select len('computer')
- - select left('computer', 3)
- - select ascii('A')
- - select char(65)
- - select replicate('A', 10)
- select str(5634855, 6)

## Date and time function:

- ⇒ dateadd → year
- ⇒ datediff → getdate
- ⇒ dd → time
- ⇒ month → datepart
- ⇒ yyyy → year
- ⇒ mm → month
- ⇒ dd → day

ex:

- - select dateadd(year, 6, getdate())
- - select datediff(month, '4/5/2010', '4/16/2019')

→

20/4/19

## Programs

if:

declare @var1 varbinary(100),  
@var2 varbinary(100),  
@var3 varbinary(100)

statement:

doctage:

Big Picture: Variables Values and  
Assignment Values and Block of code in  
Procedure

declare:  $\text{var1} = 2002/10/01/00:00$

if:

declare @var1 varbinary(100),  
@var2 varbinary(100)

assignment:  $\text{var1} = \text{var2}$

Set operation:  $\text{var1} = \text{var2}$

if:

$\text{set } @\text{var1} = \text{value}$

statement:

$\Rightarrow$  Print information

if:

Print message

Print message = + var1 (char value)

Print message = + convey

(var1 char, @var1, @var2)

$\text{var1} = \text{conv1}$

$\text{var2} = \text{conv2}$

$\text{var1} = 10000$

exp:

```

declare @na varchar(20), @co varchar(20),
        @fees int
set @na = 'Suthan'
set @co = 'DMO'
set @fees = 2340
print 'Details'
print 'Name = ' + @na
print 'Course name = ' + @co
print 'Total fees = ' + convert(varchar(20))

```

### calculation method:

```

declare @v1 int, @v2 int, @tot int
set @v2 = 56
set @v1 = 50
set @tot = @v1 + @v2
print 'Calculation'
print 'Value1 + convert(varchar(20), @v1) = '
print 'Value2 + convert(varchar(20), @v2) = '
print 'Total = 1 + convert(varchar(20), @tot)'

```

### Output:

Calculation  
Value1 = 56  
Value2 = 50  
Total = 106

values1 = 56  
values2 = 50  
Total = 106

conditional statement:  
⇒ if      ⇒ else if      ⇒ select case  
⇒ if-else      ⇒ nested if      ⇒ switch case

if:  
if condition      print value  
statement

ex:  
declare @val int  
Set @val = 1400  
Print 'values =' + convert(varchar(20), @val)  
if @val > 1000  
print 'Above Thousand'

out put:

values = 1400  
Above thousand

if else:

if condition

statement

else

statement

if f1 = 1000  
Then f2 = 2000  
Else f2 = 1000  
End if

```
declare @name varchar(20), @val int  
set @name = 'varanth'  
set @val = 23  
set @val2 = 10  
set @tot = @val * @val2  
print 'Name = ' + @name  
print 'Value1 = ' + convert(varchar(20), @val)  
print 'Value2 = ' + convert(varchar(20), @val2)  
print 'Total = ' + convert(varchar(20), @tot)  
if @tot > 80  
print 'A Grade'  
else  
print 'B Grade'
```

---

⑦ name, DOORNO, Street Name, Place, Phone No  
lab work:

```
declare @name char, @dno int, @stname  
char(20); @pl char(20), @phno  
set @name = 'sakthi'  
set @dno = 146  
set @stname = 'north street'  
set @pl = 'vsmi'  
set @phno = 979010364
```

```
print 'data',  
print '*****'  
print name = 't@na  
print door no = ' + convert(checkbox(2), @d1B)  
print 'street name = ' + @STname  
print 'place = ' + p  
print 'phone number = ' + @Phno
```

out put:

data  
\*\*\*\*\*  
name = s@thi  
door no = 146  
street name = north street  
place = vsm;  
phone number = 9790112364

1.05.19

else if:

```
if condition  
statement  
else if condition  
statement  
else if condition  
statement  
else  
Statement
```

### example:

```

declare @co varchar(20)
set @co = 'orange'
print 'selected color = '+@co
if @co = 'red'
print 'selected color is red'
else if @co = 'yellow'
print 'selected for mango'
else if @co = 'green'
print 'selected for graphs'
else if @co = 'orange'
print 'selected for orange'
else
print 'not selected for item'

```

nested if:

```

if condition
  if condition
    statement
else
  statement
else
  statement

```

### example:

```

declare @us int,@ps int
set @us = 111
set @ps = 222
print 'username = '+convert(varchar(20),
print 'password = '+convert(varchar(20),
if @us = 111
if @ps = 222

```

print 'login correct'  
else  
print 'password is wrong'  
else  
print 'username is wrong'

proc p

procedure :

It is a block of program which performs some operation  
and it can be called from another program.

ex: insert, select

rep work  
0 to 9

one digit

EMPNO	10000
EMP name	Muthu
month salary	50000
BONUS percentage	> 5% < 3%

01/5/19

procedure create gf:

create table tablename (fieldname datatype,  
fieldname datatype)

create procedure procname (@var1 datatype,  
@var2 datatype)

as  
insert into tablename (fieldname, fieldname) values  
(@var1, @var2)  
exec tablename values, values

declare @h int

set @h 10867

if @h <= 10

print 'one digit value'

ex:-  
--create table stock (sno int, stock name varchar  
rate int)

--select \* from stock

--create procedure (@snumber int, @stockc varchar  
@ rate int)

as

-- insert into stock (sno, stockname, rate) values

(@snumber, @stock, @rate)

--exec abc 1, 'chair', 700

--select exec abc 2, 'table', 2000

--exec abc 3, 'fan', 3500

- Select \* from stock

X

gs:-

SQl - table zion values or table referring

Select @varna = fieldname, @varna = fieldname  
from tablename

example:-

--create table first1 (sname varchar(20)  
age int, gender char(10))

-- insert into first1 values ('samy', 23, 'male')

('kaarthika', 29, 'female')

('marathan', 10, 'male')

('srun', 18, 'male')

- = select \* from first1

```
declare @chname varchar(20), @age int,  
        @g char(2)  
select @ cname = SName, @g = age, @g = gender  
      from first  
print 'cname=' + convert(varchar(20),@chname)  
print 'Age=' + convert(varchar(2),@age)  
print 'gender=' + @g  
select * from first  
if @ age = 20  
    print 'selected'  
else  
    print 'not selected'
```

~~X~~ ~~MarkStatement~~  $\rightarrow$  ~~Mark~~  $\rightarrow$  SNO, SName, Tamil, English, Maths, Science, Social

# web technology

⇒ HTML

⇒ FrontPage

⇒ VBScript

⇒ ASP

⇒ XML

## HTML

HTML - Hyper Text Markup Language

use:

⇒ Webpages designing

⇒ Create the table

⇒ Create the Marquee

⇒ Set the image for webpages

advantages:

⇒ It is software

⇒ It is application software

⇒ Developed by Tim Bernersly

⇒ It is tag oriented software

⇒ It is Non case sensitive software

### Total HTML Tags

<html>	<b>	<sup>
<body>	<i>	<img src=>
<head>	<u>	<a href=>
<title>	<sub>	<frame>
<font>		
<h1>		<form>
<h2>		<table>
<h3>		 
<img>		<p>

<form>  
<table>  
<br>  
<p>

program:

```

<html>
<head><title>Message</title></head>
<body>
  message
  messq ge
</body>
</html>

```

program write area:  
 → Notepad screen

extension:

html is good software இன்று  
 ஒன்று ஒரு file save வீரால் ஒரு  
 file name ஒரு html ஒரு save கொள்ளல்

program run area:

⇒ internet explorer  
 ⇒ google chrome

Run gf:

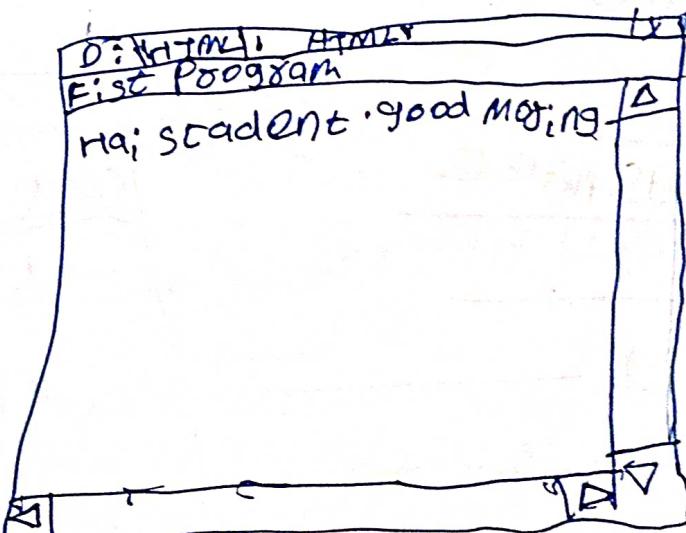
location:\folde\name\file\name.htm

Ex:

```

<html>
<head><title>First Program</title>
</head>
<body>
  Hai student
  good morning
</body>
</html>

```



B7L b7c91e

→ print the information from next line

Break tag  $\oplus$ ) close-tag ~~shown~~

g g =

massage (b)

massachusetts

Space:

⇒ set the one space

1

$$g_x \approx 0$$

Non Break Space

95:

message &nbsp; -- - - '

*ex:*

`<html>  
<head><title>coolos</title></html>`

$\angle b o d \cong \angle$

color & abs. & abs. name {bx} {bx} {bx} {bx}

$\text{isReal}(b)$

&nbsp &nbsp &nbsp 3. yellow  
&nbsp &nbsp &nbsp &nbsp &nbsp 4. blue

c:/body>

CLIMB

Friend's Name

1 —————

a —

3

14

Output

Color • name

1. Red

2. October.

3. yellow

4.Blue

January

February

March

April

May

June

July

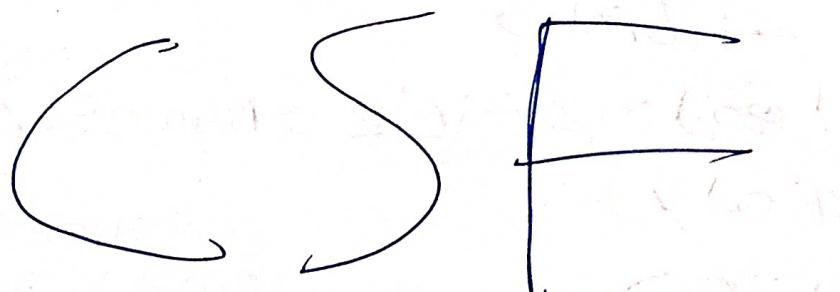
August

September

October

November

December



b[5/1]at  
pre:

Not bad others will otherwise often look like  
web pages point towards making pre tag

gg:

<pre>

message@

''

''

</pre>

bold:

⇒ convert the text in bold format

gf:

<b> message @ </b>

italic:

⇒ convert the text in italic format

<i> message </i>

## underline:

⇒ create the small line for the text

gf:

<u> message </u>

ex:

~~x@y@ = x@y@ / \~~

<html>

<head><title>Names</title></head>  
<body>  
<pre>

<b>India</b>

<u><b>TamilNadu</b></u>  
<b><i>Tirunelveli</i></b>  
</pre>  
</body>  
</html>



## sub:

⇒ create the small letter for bottom  
of the word

gf:

<sub> message </sub>

sup:(superscript).

⇒ create the small letter for  
top of the text

gf:

<sup> message </sup>

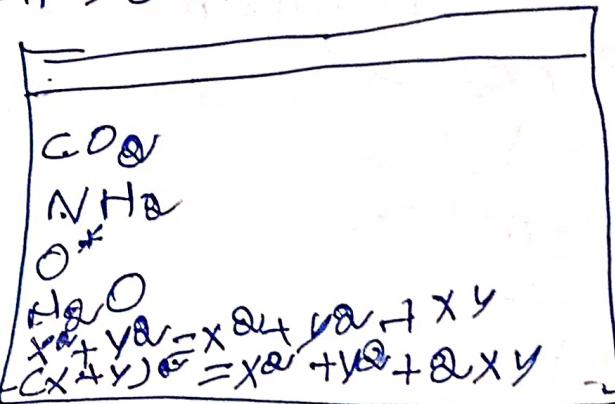
<head><title>marks  
 <head><body>  
 <body>  
 <p>  
 CO<sub>x</sub> & <sub>y</sub>  
 NH<sub>x</sub> & <sub>y</sub>  
 O<sub>x</sub> + <sub>y</sub>  
 H<sub>x</sub> & <sub>y</sub>  
 X<sub>x</sub> & <sub>y</sub> = X<sup>x</sup>  
 Y<sub>x</sub> & <sub>y</sub> = Y<sup>y</sup>  
 Z<sub>x</sub> & <sub>y</sub> = Z<sup>z</sup>  
 (X+Y)<sub>x</sub> & <sub>y</sub> = X<sup>x</sup> + Y<sup>y</sup>  
 + Y<sub>x</sub> & <sub>y</sub> = X<sup>x</sup> + Y<sup>y</sup>

<sup>x</sup> + & <sup>y</sup>

<p>

<body>

<html>



### Body Attributes:

→ change the background color and images for the web pages

### Attributes:

background = set image

bg color = background color

text = change the text color



```
<html>
<head><title>Image</title></head>
<body background = "D:\Background\pictures\new pictures\winter.jpg">
```

## Images

```
</body>
</html>
```

-x-

```
<html>
<head><title>Colors</title></head>
<body bgcolor='green' text='red'>
<pre>
<b>My Name is color</b>
```

```
</pre>
```

```
</body>
```

```
</html>
```

X

7/19

## order tag:

⇒ align the text in order wise

## Attributes:

type = "A,A,i,l"

start = "start from particular letters"

## unorder tag:

⇒ align the text for bullet's

format

95:

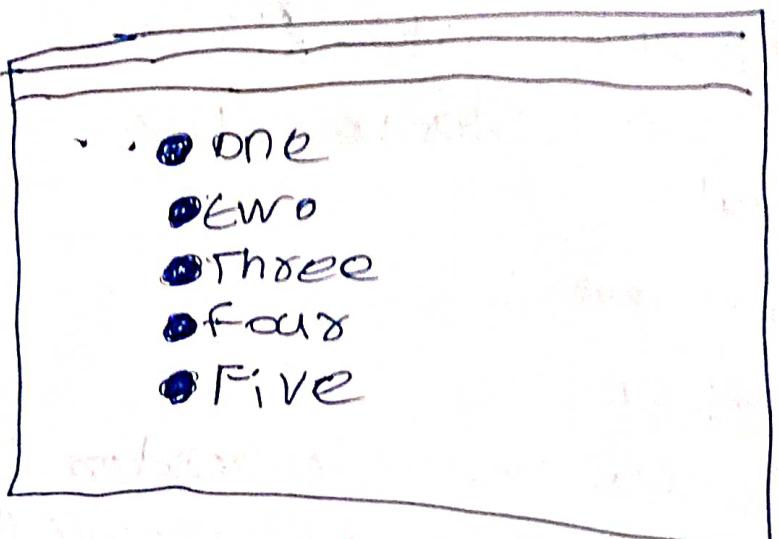
```
<td type="checkbox">  
</td>MESSAGE</td>  
<td>MESSAGE</td>  
</tr>
```

96 year

```
<html>  
<head><title>order list</title></head>  
<body bgcolor="orange" text="green">  
<b><ol type="A" start="5">  
<li>Sunday</li>  
<li>Monday</li>  
<li>Tuesday</li>  
<li>Wednesday</li>  
<li>Thursday</li>  
<li>Friday</li>  
<li>Saturday</li></ol>  
</body>
```

@x-&c

```
<html>
<head><title>Unorder List</title></head>
<body background="SKYBlue" text="PINK">
  <ul type="disc">
    <li>One</li>
    <li>Two</li>
    <li>Three</li>
    <li>Four</li>
    <li>Five</li>
  </ul>
</body>
</html>
```



### Font tag:

→ design the font

### Attributes:

face = "font style"

size = "font size"

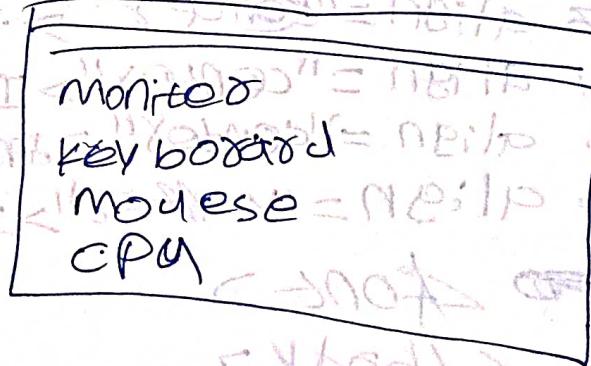
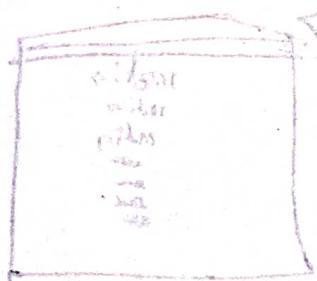
color = "text color"

gf:-

```
<font face="style" size="value"
      color="colorname">
  message</font>
```

ex:

```
<html>
  <head><title>computer pages</title>
    <head>
      <body>bg color = "black">
        <p>
          <font face = "Algerian" size = "30">
            color = "red">monitors</font>
          <font face = "Bauhaus 93" size = "50" color =
            color = "green">key board</font>
          <font face = "Bierstadt MT" size = "60">
            color = "yellow">mouses</font>
          <font face = "Brush Script MT" size = "70">
            color = "white">CPU</font>
        </p>
      </body>
    </html>
```



8/5/19

heading tag:

→ get the heading for the web pages

Attributes:

align = center, right, left

only use for six level heading

h1, h2, h3, h4, h5, h6

Ex:

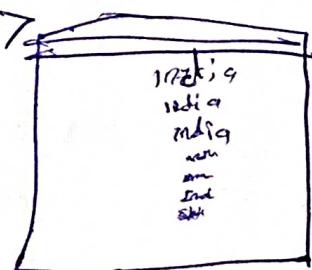
<h1 align = "left, right, center"> message <h1>

<h6 align = "left, right, center"> message <h6>

Ex:

```
<html>
  <head> <title> Heading Tag / Title </title> </head>
  <body> bgcolor = "red" >
    <font color = "yellow" > <h1 align = "center" > India
    <h2 align = "center" > Indian </h2>
    <h3 align = "center" > India </h3>
    <h4 align = "center" > Indian </h4>
    <h5 align = "center" > India </h5>
    <h6 align = "center" > India </h6>
```

~~<font>~~ <font>
 </body>
</html>



hr: (horizontal line)

⇒ set the line for the webpages

attributes:

width - value

size - set the line height

color - color name

gf:

<hr width="value%" size="value%">

color="colorname" value></hr>

ex:

```

<html>
  <head>
    <title>Line</title>
  </head>
  <body>
    <hr width="100%" size="50%" color="black">
    <hr width="100%" size="50%" color="white">
    <hr width="100%" size="50%" color="green">
  </body>
</html>

```

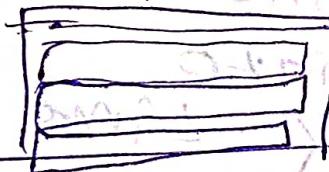


image (img)

⇒ set the image

gf: minutes

src - location (src - source)

height - picture height " = height

width - picture width " = width

gf:



height="value" width="value"></img>

```
<html>  
<head><title>Image</title></head>  
<body>  

```

9/5/19 creation of animation = EX

marquee:

→ run the text in webpages

attribute:

backgroundcolor = set the marquee background color

height = marquee height

width = marquee width

direction = left, right, up, down

behavior - alternate

(loop = number of time)

<body>  
<marquee>

(loop=5)

gf:

marquee direction = left/right/up/down

backgroundcolor name = value

width = value@100 p = "number of time"

width = value@100 p = "number of time" step = 1

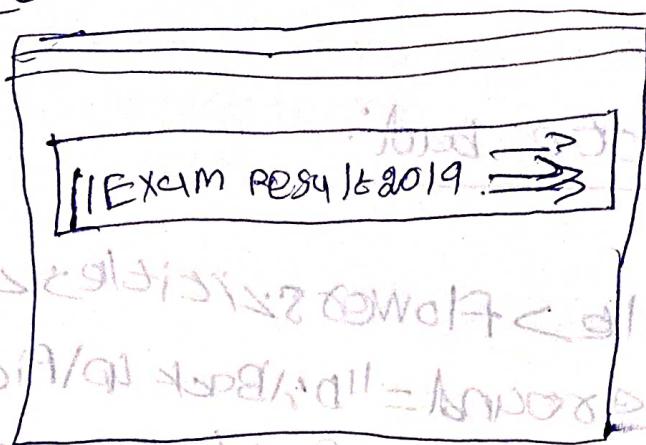
message </marquee>

ex:

```
<html>  
<head><title>My first web page</title></head>  
<body background="pink">
```

<marquee direction="right" scrollDelay=200  
bgColor="sky blue" behaviour="slide">  
</body> <!-- Exam result 2019 --></marquee>  
</html>

output



a>(anchor):

→ link bet week the webPages

Attributes:

• href = hyperlink reference file location

⇒

• a href = "location of filename.html" →

note book -1

<html>  
<head> <title> An Photo </title> </head>  
<body> <img alt="A hand-drawn diagram of a browser window showing the title 'An Photo' and the URL 'http://www.google.com' in the address bar."/>

<a href="file:///C:/Users/malik.html" > Animal </a>  
<a href="file:///C:/Users/malik/Desktop/flower.html" > Flower </a>  
<a href="file:///C:/Users/malik/Desktop/actor.html" > Actor </a>

</body>  
</html>

Second Note

```
<html>
<head><title>Animal</title></head>
<body background="D:\BackUp\pictures\baby\actor">
  <img alt="images.jpg" />
```

```
</body>
```

```
</html>
```

Third Note bad:

```
<html>
```

```
<head><title>flowers</title></head>
<body background="D:\BackUp\pictures\flowers">
  <img alt="flowers.jpg" />
```

```
</body>
```

```
</html>
```

Four Note bad:

```
<html>
```

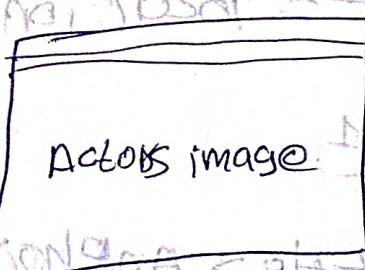
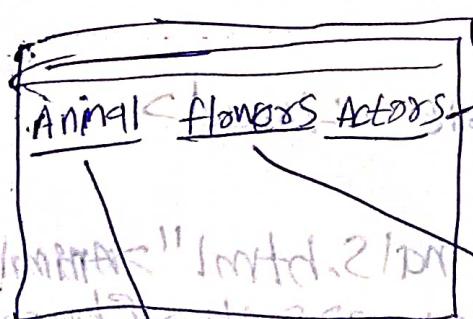
```
<head><title>actors</title></head>
```

```
<body background="D:\BackUp\pictures\actors">
```

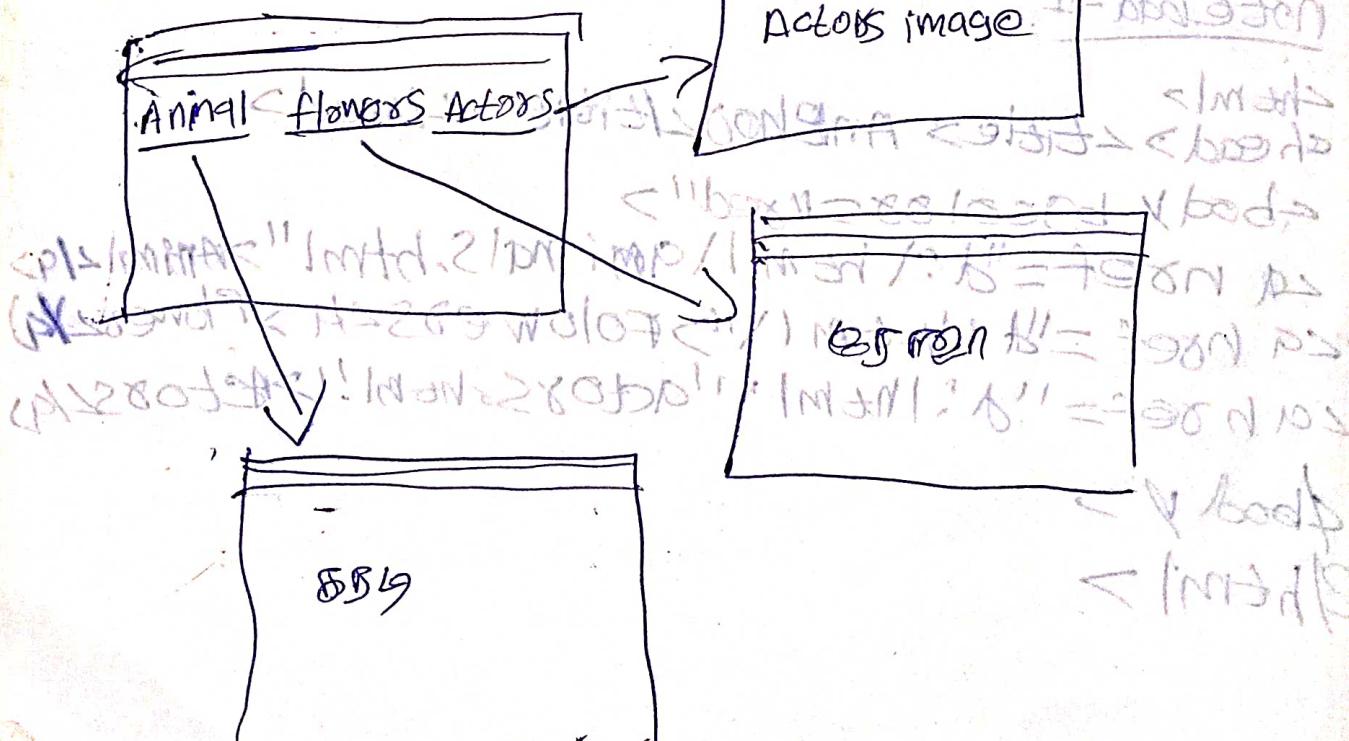
```
  <img alt="actors.jpg" />
```

```
</body>
```

```
</html>
```



actors image



frame:

⇒ split the webpages

attributes:

frameset = "split rows or columns"

bordercolor = "color name"  
border = "value"

ex:

<frameset cols/rows="value%", value%>

bordercolor = "color name" border = "value">

<frame>

ex:

<html>

<head><title>example</title></head>

<frameset cols = "50%, 50%", border = "1" >

<frame src = "D:\BackgroundPicture\first.htm" border = "1" >

<frame>

</frameset>

</html>

## Result Report

HSC +1 → Roll No:

HSC +2 → Date of birth:

SSLC → Name:  
Total mark:

A to Z = 65 to 90

a to Z = 97 to 182

O to q = 48 to 57

 = 32