



Professional Edition Version 1
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Jemin InformationTechnology





GDOLLAR Version 1.0 Professional Edition

JeminInformationTechnology WILMIXJEMIN J

About the Author and Preface

This GDOLLAR is Designed by Analyzing many Research papers

Using GDOLLAR one can build his own compiler, datastructures as Fast

As could. I Thank God for this wisdom given to me...

-----Wilmix Jemin J, Jemin Information Technology

This EBOOK is Printed in Asia.

To Make Software Fast like Rabbit movement

and a global redistribution of prosperity

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we'd like to thank our friends, Github and our supporters.

Thanks to all! ------WILMIX JEMIN J

About this Book

Welcome to GDOLLAR! If you've picked up this book, we suspect you're a OOPS Professional concenterate only for research.

Perhaps you've worked with the Other Research Technologies in the past, perhaps this is your first step into GDollar P.L.

Whichever path has led you here, you're probably looking for a good introduction

to the new GDOLLAR Programming Language. This book intends to give you that introduction and much more. If you've never heard of GDOLLAR, we cover the basics in enough depth to keep you in tow. If you know what GDOLLAR does, but want a deeper understanding of how it does it, we'll provide that too.

Roadmap

Book is focused on GDollar Programming Language, if you have knowledge or experience about compiler design, building own datastructures can focus it.

But Minimum OOPS Technical Knowledge is required to focus on Studying, Designing GDollar Modules.

GDollar is an Advanced Technology focused on Research for Compiler Design and Constructing Own DataStructures.

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Code conventions

The following typographical conventions are used throughout the book:

- Courier typeface is used in all code listings.
- Courier typeface is used within text for certain code words.
- Italics are used for emphasis and to introduce new terms.
- Code annotations are used in place of inline comments in the code. These highlight important concepts or areas of the code.

Code downloads

This will get you the GDOLLAR.zip file by downloading at GDollar Google site a couple of GDOLLAR archive files —as well as some documentation of the source. Instructions on how to install the application are contained in a README file in that download.

Unit 1: Introduction to GDollar Technology

GDollar Technology is a modern Programming Language consists of JAVA OOPS, Behave like C/C++, GDollar Advanced OOPS Networking, RUN and compile at same time, it is used in Software Development, cloud computing, Research, and, Advanced OOPs. It is used in case of constructing datastructures, etc.

SYNTAX FOR GDollar (.Gdollar) (beautiful syntax)

```
<GDollar>
<%
<! GDollar OOPS Logic !>
public void GDollar-Main()
?>
public void GDollar-Main()
note: This should be saved in filename. Gdollar
```

How GDollar Technology Works for GDollar-LIB?

At first .Gdollar is compiled by GDOLLARc compiler GDollarc convert to intermediate code called as filename.C\$. and it calls GDollarv.4 compiler.

After that GDOLLARv.4 compiles the intermediate code to create .dll file immediately.so that user can directly use in GDollar-CWE Editor program.

How GDollar Technology works for GDollar-MAIN(CWE)?

When Gdollar compiler compilers a Gdollar program it generates .dll and .exe file for futhure use.

Why you use Gdollar technology? what is the major advantage of Gdollar?

Since after compiling Gdollar code it generates intermediate encode (.C\$) files. That hacker or any body cannot understood the code. ie) Hacker cannot take the original source code.GDollar technology prevents code stealing using this concept.

Why GDollar?

GDollar is a Programming Langauge and it used for constructing advanced datastructures, complex datastructures, and focused on compiler design and it is mostly by universities, colleges, companies, industries. it is invented by wilmix jemin in JAVA, C/C++ and editor using JDollar(JWEB) P.L at 2016.

What are Gdollar Modules?

Gdollar has 5 modules they are....

- a) GDollar -LIB
- b) GDollar -Advanced OOPS (CWE -Editor)
- c) GDollarv.4 (intermediate encoder)
- d) JSLASH (autogenerated technology with in few seconds) (GDOLLAR COMPILERDESIGN)
- e) GDollar CJAVA

SYNTAX-1 (used only for creating libraries - .Gdollar)

<GDollar>
<IMPORT> Packagename;
<CLIB>
<%
<! OOPS Logic and datastructures!>

%>

How GDollar is formed? What are its Advantages Over Native language JAVA Programming?

GDollar is formed in C++ OOPS concepts..

JAVA borrowed C++ OOPS concepts but
GDollar borrowed C++ OOPS concepts and JAVA oops and it has
Attractive syntax; Plus in-build functions
for Program and it is responsible for creating
libraries (.dll). JAVA has attained the Programming
standards, But GDollar attains combination of C Technology
and JAVA Technology advantages.
GDollar Generates .dll files
but JAVA Generated .class files.
GDollar Has Advanced OOPS than JAVA 1.8.

UNIT -2 : GDollar DATATYPES,LOOPING,Statement,Operators

GDollarc Keywords

```
abstract add as ascending async await base bool break by byte case catch char checked <CLASS> const continue decimal default delegate descending do double dynamic else enum <EQUALS> explicit extern false finally fixed float for foreach from get global goto group if implicit in int interface internal into is join let lock long <PACK> <NEW> null
```

object on operator orderby

out override params partial

private protected public readonly

ref remove return sbyte

sealed select set short

sizeof stackalloc Shared string

struct switch this throw

true <TRY> typeof uint

ulong unchecked unsafe ushort

using value var virtual

void volatile where while

yield <% %>

OTHER KEYWORDS IN GDOLLAR

AND -> AND operator

NOT -> NOT operator

-> NOTEQUALS

RUN -> Runnable used in thread

TH-> Thread

<EXE> -> Exception

Friends -> Friend function

OTHER ATTRACTIVE SYMBOLS in GDOLLAR

--> => implements

<-- => extends

PRIMITIVE DATATYPES in GDOLLARC

The following table lists the available value types in CDollarcc (v.1)

```
bool Boolean value
                        True or False
                                          False
byte 8-bit unsigned integer o to 255
char 16-bit Unicode character U +0000 to U +ffff '\o'
decimal
            128-bit precise decimal values with 28-29 significant digits
                                                                        (-7.9 X
1028 to 7.9 x 1028) / 100 to 28 0.0M
            64-bit double-precision floating point type (+/-)5.0 x 10-324 to (+/-
double
)1.7 x 10308 0.0D
float 32-bit single-precision floating point type -3.4 x 1038 to + 3.4 x 1038
      0.0F
     32-bit signed integer type -2,147,483,648 to 2,147,483,647
int
long 64-bit signed integer type -9,223,372,036,854,775,808 to
9,223,372,036,854,775,807
sbyte 8-bit signed integer type -128 to 127 o
short 16-bit signed integer type -32,768 to 32,767 o
uint 32-bit unsigned integer type o to 4,294,967,2950
ulong 64-bit unsigned integer type o to 18,446,744,073,709,551,615
                                                                        0
            16-bit unsigned integer type o to 65,535 o
ushort
```

OPERATORS in GDollarc

Operator Type Category Precedence

Unary postfix expr++ expr--

```
prefix ++expr --expr +expr -expr ~!

Arithmetic multiplicative */%

additive +-

Shift shift << >> >>>

Relational comparison < > <= >= instanceof

equality == NOT=

Bitwise bitwise AND &

bitwise exclusive OR ^

bitwise inclusive OR |

Logical logical AND AND

logical OR OR

Ternary ternary ?:

Assignment assignment = += -= *= /= %= &= ^= |= <<= >>>>=
```

GDollarc has the following type of operators:

Arithmetic Operators

Relational Operators

Logical Operators

Bitwise Operators

Assignment Operators

Misc Operators

Arithmetic Operators

Example:

Assume variable A holds 1 and variable B holds 7 then:

Operator Description Example

- + Adds two operands A + B = 8
- Subtracts second operand from the first A B = -6
- * Multiplies both operands A * B = 7
- / Divides numerator by de-numerator B / A = 7
- % Modulus Operator and remainder of after an integer division B % A = 0
- ++ Increment operator increases integer value by one A++=2
- -- Decrement operator decreases integer value by one A--=0

Relational Operators

Assume variable A holds 30 and variable B holds 10, then:

Show Examples

Operator Description Example

- = Checks if the values of two operands are equal or not, if yes then condition becomes true. (A == B) is not true.
- != Checks if the values of two operands are equal or not, if values are not equal then condition becomes true. (A != B) is true.
- > Checks if the value of left operand is greater than the value of right operand, if yes then condition becomes true. (A > B) is true.
- Checks if the value of left operand is less than the value of right operand, if yes then condition becomes true. (A < B) is not true.
- >= Checks if the value of left operand is greater than or equal to the value of right operand, if yes then condition becomes true. $(A \ge B)$ is true.

< Checks if the value of left operand is less than or equal to the value of right operand, if yes then condition becomes true. $(A \le B)$ is not true.

Logical Operators

Assume variable A holds Boolean value true and variable B holds Boolean value false, then:

Operator Description Example

- && Called Logical AND operator. If both the operands are non zero then condition becomes true. (A && B) is false.
- \parallel Called Logical OR Operator. If any of the two operands is non zero then condition becomes true. (A \parallel B) is true.
- ! Called Logical NOT Operator. Use to reverses the logical state of its operand. If a condition is true then Logical NOT operator will make false. !(A && B) is true.

Bitwise Operators

Bitwise operator works on bits and perform bit by bit operation. The truth tables for &, |, and ^ are as follows:

p	q	p & q	$p\mid q$	p ^ q
0	0	0	0	0
0	1	0	1	1
1	1	1	1	0
1	0	0	1	1

Operator Description Example

- & Binary AND Operator copies a bit to the result if it exists in both operands.
- Binary OR Operator copies a bit if it exists in either operand.
- A Binary XOR Operator copies the bit if it is set in one operand but not both.
- ~ Binary Ones Complement Operator is unary and has the effect of 'flipping' bits.
- Sinary Left Shift Operator. The left operands value is moved left by the number of bits specified by the right operand.
- >> Binary Right Shift Operator. The left operands value is moved right by the number of bits specified by the right operand.

Assignment Operators

There are following assignment operators supported by CDollarcc:

Operator Description Example

- Simple assignment operator, Assigns values from right side operands to left side operand C1 = A1 + B1 assigns value of A1 + B1 into C1
- += Add AND assignment operator, It adds right operand to the left operand and assign the result to left operand C 1+= A1 is equivalent to C 1= C1 + A1
- -= Subtract AND assignment operator, It subtracts right operand from the left operand and assign the result to left operand C1 -= A1 is equivalent to C1 A1
- *= Multiply AND assignment operator, It multiplies right operand with the left operand and assign the result to left operand C1 *= A1 is equivalent to C1 = C1 * A1
- /= Divide AND assignment operator, It divides left operand with the right operand and assign the result to left operand C 1/= A1 is equivalent to C1 = C1 / A1
- %= Modulus AND assignment operator, It takes modulus using two operands and assign the result to left operand C1 %= A1 is equivalent to C1 = C1 % A1
- <<= Left shift AND assignment operator C1 <<= 2 is same as C1 = C1 << 2
- >>= Right shift AND assignment operator C1>>= 2 is same as C1=C1>> 2

&= Bitwise AND assignment operator C1 &= 2 is same as C 1= C1 & 2

 $^{-}$ bitwise exclusive OR and assignment operator C1 $^{-}$ 2 is same as C1 = C1 $^{-}$ 2

|= bitwise inclusive OR and assignment operator C1 = 2 is same as C1 = C1 = 2

Miscellaneous Operators

There are few other important operators including sizeof, typeof and ? : supported by Cdollarcc.

Operator Description Example

sizeof() Returns the size of a data type. sizeof(int), returns 4.

typeof() Returns the type of a class. typeof(StreamReader);

& Returns the address of an variable. ANDa; returns actual address of the variable.

* Pointer to a variable. *a creates pointer named 'a' to a variable.

?: Conditional Expression If Condition is true? Then value A: Otherwise value B

is Determines whether an object is of a certain type. If(Girafee is animal) // checks if Girafee is an object of the Animal class.

as Cast without raising an exception if the cast fails. Object obj = new StringReader("Wilmix");

StringReader r = obj as StringReader

Operator Precedence in GDollarc

Operator precedence of the expression.some operators have higher precedence than others; for example, the multiplication or division operator has higher precedence than the addition operator.

For example x = 6 + 12 * 2; here, x is assigned 30, not 36 because operator * has higher precedence than +, so the first evaluation takes place for 12*2 and then 6 is added into it.

Here, operators with the highest precedence appear at the top of the table, those with the lowest appear at the bottom. Within an expression, higher precedence operators are evaluated first.

Category Operator Associativity

Postfix () [] -> . ++ - - Left to right

Unary + -! ~ ++ - - (type)* & size of Right to left

Multiplicative * / % Left to right

Additive + - Left to right

Shift <<>>> Left to right

Relational <<=>>= Left to right

Equality == NOT= Left to right

Bitwise AND & Left to right

Bitwise XOR ^ Left to right

Bitwise OR | Left to right

Logical AND AND Left to right

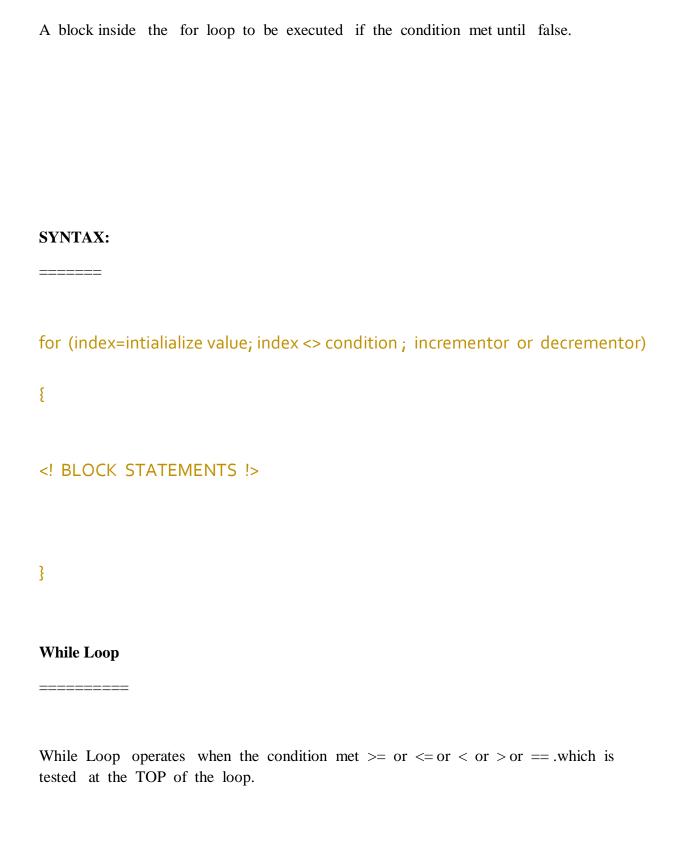
Logical OR OR Left to right

Conditional ?: Right to left

Assignment $= += -= *= /= \% =>>= <<= \&= ^= |= Right to left$

Comma , Left to right

Gdollar Statements consists of Print statements,
Read Statements , LOOPING Statements
Read Statements
Console.ReadKey();==> Read a vaue from console
Drint Statements
Print Statements
SYNTAX:
CDOLLAD WriteLing(String detetrne)
GDOLLAR.WriteLine(String+datatype);
Types of Looping Statement
,
=======================================
For Loop
======
For Loop operates when the condition met \geq or \leq or \leq or \geq .
At first counter is intialized to a value and it is followed by a condition
and it is followed by increment or decrement operator



A block inside the WHILE loop to be executed if the condition met until false.

syntax: ====== while (index <> condition) { <! BLOCK STATEMENTS !> }

Do – While Loop

Do - While Loop operates when the condition met >= or <= or < or > or ==; which is tested at the bottom of the loop.

A block inside the Do-WHILE loop to be executed if the condition met until false.

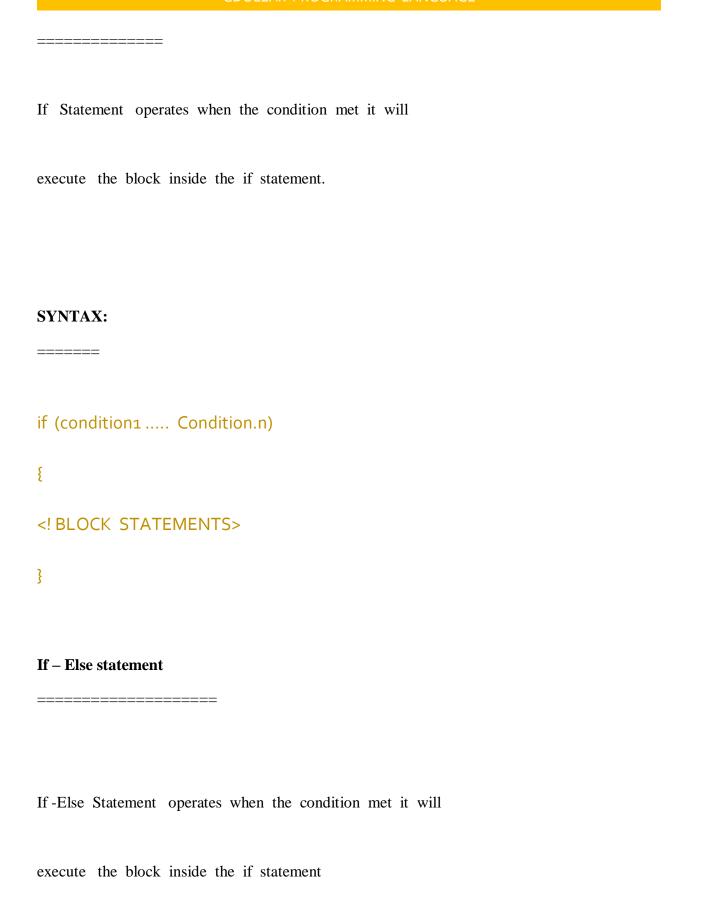
SYNTAX: ======= do { <! BLOCK STATEMENTS !> } while (index <> condition) foreach =======

The for-each loop introduced in CDollarc. It is mainly used to traverse array or collection elements.

The advantage of for-each loop is that it eliminates the possibility of bugs and makes the code more readable.

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If Statement



or else execute the block inside else statement.

```
syntax:
======

if (condition1 ..... Condition.n)
{
  <! BLOCK STATEMENTS>
}
else
{
  <! BLOCK STATEMENTS>
}
```

If- Else-if statement

```
If -Else Statement operates when the condition met it will execute the block inside the if statement or else execute the block inside if -else statement followed by a condition.
```

SYNTAX:

```
if (condition1 ..... Condition.n)
{
  <!BLOCK STATEMENTS>
}
else if (condition1 ..... Condition.n)
{
  <!BLOCK STATEMENTS>
}
```

Switch Statement

Switch statement will test for the equality when there is match with the value of expression.

The Statement inside the default statement is executed last when if none of the above case is satisfied.

if the statement is not followed by break then another switch statement with equality is executed next. or else it will skip that statement.

SYNTAX:

======

```
switch (variable) {

case v1:
    statements
    break;

case v2:
    statements
    break;

case v3:
    case v4:
    statements
```

default:	
statements	
break;	
}	
Types of Flow Control Statement	
Return Statement	
=======================================	
Return Statement is used to return a value	
makan a Francisco in a cartana tama	
when a Function is a return type.	
syntax: return value;	
Continue Statement	
Continue statement is used to continue the loop	
Continue statement is used to continue the loop.	
SYNTAX:	

======
continue;
Break Statement
=======================================
Break statement is used to Skip from the loop.
SYNTAX:
break;
Goto Statement
=======================================
Goto Statement is used as a climber to goto another block and execute
it.
SYNTAX:
=====
goto label;
Throw Statement

Usually the throw statement is used with try-catch or try-finally statements.

A throw statement can be used in a catch block to re-throw the exception that the catch block caught.

SYNTAX:

throw exception;

ARRAYS

ARRAY is to store a value in a location which uses stack datastructures..

UNIT-3:GDollar ADVANCED CONCEPTS

ADVANCED OOPS CONCEPTS

```
{
int i;
GDOLLAR.WriteLine("\nList of Technologies in year "+"2016 ");

string i1="weew";
GDOLLAR.WriteLine("wilmix"+i1);
GDOLLAR.WriteLine("\njemin"+"is going");

}
}

What will be the Output when you run using ?
>GDOLLARc abc.GDollar
Note: it will create .dll file for that.

Example-4:
.......................
Write a Program to add 1 lakh Natural integers using arraylist using GDollar LIB.
```

```
Program2:
------

<GDollar>
<CUTIL> //to load GDollar packages
<IMPORT> P

<%
public class Program2
{
public Shared void LIB()

{
<AList> ar= <NEW> <AList> ();
for (int i=o;i<=100000;i++)
ar.add(i,i);
}
}

what is the intermediate code when Gdollar is compiled
```

by GDollarc..

```
Program2.C$

<CDollar>
<CUTIL>
<IMPORT> P
<%
public class Program2
{
public *ABoo7 void LIB()

{
 *ABo43 ar= *ABo91 *ABo43 ();
for (int i=0;i<=100000;i++)
ar.add(i,i);

}
}
}
%>
```

What is the use?

Since we can reuse the code , and which means that it is the proof that this developer had coded it.

when GDollarc is used GDollarc compiler produces intermediate code and which again calls CDollarv.4 and which creates .dll file.

GDollar ADVANCED DATASTRUCTURES THEORY used in CWE EDITOR

GDollarArrays

SYNTAX for GDOLLARArrays:

CARRAYS list1 = new CARRAYS(string); to add any collection objects to array use add (String) functions and to Display those objects use list1.Display(); Any class that use CARRAYS you should extends Array in class...

TREEOFARRAY

Write a Program to add 1 lakh Natural integers incremented by 10 using arraylist and add the arraylist objects to TreeOfARRAY what happens when you compile and execute the given the below program?

SYNTAX for TreeofArray:

TreeArray <name> = new TreeArray(String);

<name>.add(elements);

where elements may be string or collections....

It store other collection objects and stores huge amount of data

in tree format.

LISTOFARRAY

SYNTAX for List of Array:

LArray <name> = new LArray(string);

<name>.add(elements);

The elements may be string or collection elements.

Ans: It store other collection objects and stores huge amount of data in tree format and sorts the elements in descending order and allow to insert the element in to middle of list. This means act like combination of Set and Linked List, and Tree....

UNIT 4: MISC ,Fundametals of GDollar, Keywords,Operators,loops,Datatypes,Inner class, OOPS concepts of GDollar ,and collections

GDollar OUTPUT STATEMENT GDollar.WriteLine(" "+" "); It is used for printing the output followed by line. We had to add + operator to concatenate the outputs..... String String is represented by <Str> notation. a) char[] $obj = \langle NEW \rangle char[2];$ obi[0] = 'x';obj[1] = 'x';string eS = <NEW> string(obj); This statement is used to create an object... b) <Str> <strname> = value; But this Statement will not create an object... but it stores the value... the differences between a) if (s1==s2)== means it is used to compare the values... b) if s1.<EQUALS>(s2)EQ means EQUALS is used to compare objects..

```
<GDollar>
<CUTIL>
<IMPORT> P
<%
public class Program2
public Shared void LIB()
<AList> ar= <NEW> <AList> ();
for (int i=0;i<=100000;i++)
ar.add(i,i);
if (ar.<EQUALS>(ar)) // compare two objects
GDOLLAR.WriteLine(""+ar);
}
%>
GDollar COLLECTIONS
Why we use collections in our software development?
Because for various projects we will use various kinds of
datastructures that's why collections are focused.
Q: What are the Important concepts of Software Development?
ARRAYLIST
_____
SYNTAX:
<AList> arraylistobjectname = <NEW> <AList>();
```

But type may be Object, int, Double, String, etc.

Why we focus Arraylist?

Since ArrayList involves Powerful insertion and search mechanism when compared to array.

So we focus it.

Some built in functions available in ArrayList they are add and remove.

syntax : arraylistobjectname.add(loc,<datatype>);

loc means location of the arraylist.

syntax: arraylistobjectname.remove(<datatype>);

How did you iterate the ArrayList?

by using While statement ...

LinkedList

<LList> arraylistobjectname <NEW> <LList>();

But type may be Object, int, Double, String, etc.

As according to collection concepts, built in functions are Designed for LinkedList they are add and remove.

Actually when you study about Datastructures of LinkedList and here we Designed the LinkedList using the LinkedList code as mentioned in above that is LinkedList.c\$. And add more functions... and we use GDollar Generics...

What is the function of LinkedList? Why we use LinkedList? In ArrayList You can't insert element in to the middle or first or last so LinkedList is focused....
LinkedList is a Good example of Train....

VECTOR STACK

Here Vector implements Stack.

So we can mention in short notation as VList.

and Vector has push ,pop, and peek() apis.

push for push an element ,pop for POPing the last element.

peek for showing the firstelement in vector stack

Example:

```
<GDollar>
<CUTIL>
<IMPORT> P
{
public class abc
{
public void lib()
VS s = \langle NEW \rangle VS(3);
   s.<PUSH>(1);
   s.<PUSH>(2);
   s.<PUSH>(3);
   s.<PUSH>(4);
while (NOTs.empty())
  {
     GDOLLAR.WriteLine("Top element is " + s.peek());
      GDOLLAR.WriteLine("Removed the element " + s.<POP>);
```

OOPS in GDollar A) INHERITANCE NOT USING EXTENDS METHOD... C.GDollar <GDollar> <CUTIL> <IMPORT> P { class A { public A() { GDOLLAR.WriteLine("A's called"+"n"); } } class B { public B() { GDOLLAR.WriteLine("B's called"+"n"); } } class C public C() { { GDOLLAR.WriteLine("C's called"+"n"); } } public void lib() { <NEW> A(); <NEW> B(); <NEW> C(); }

```
Output:
B) POLYMORPHISM in GDollar
What is polymorphism?
It is Means action on method to do different things
based on the object that is action upon.
Example:
Write a Program to compute Rectangle Area and Triangle area
using Polymorphism.
Geometry.Gdollar
<GDollar>
<IMPORT> P
public class EVEN
public void ISEVEN(int num1)
for (int i=2;i<num1;i++)
```

```
if (num1% 2==0)
GDOLLAR.WriteLine("EVENNOS="+num1);
}
    public void LIB()
    {
      int no = 100;
      int r;
      EVEN n = \langle NEW \rangle EVEN();
      n.ISEVEN(no);
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```

```
C) Write a Progam to List Faculty, students using Diamond method in GDollar
Note: Without Extends methods its calls methods and value when new ()
is intialized.
This is the Major Advantage of GDollar over native programming languages
like JAVA.
Program: TA.Gdollar
<GDollar>
<IMPORT> P
class Person {
  Person(){}
public Person(int x) { GDOLLAR.WriteLine("Person::Person(int ) called"+x); }
class Faculty {
public Faculty(int x)
```

```
<NEW> Person(x);
    GDOLLAR.WriteLine("Faculty::Faculty(int ) called"+x);
  }
}
class Student {
public Student(int x) {
<NEW> Person(x);
     GDOLLAR.WriteLine("Student::Student(int ) called"+ x);
  }
class TA {
  TA(int x) {
  <NEW> Faculty(x);
  <NEW> Student(x);
 GDOLLAR.WriteLine("TA::TA(int ) called"+x);
  }
```

```
public void LIB( )
  <NEW> TA(30);
}
}
What will be the output?
```

Tue Aug 18 07:59:57 GMT+00:00 2015*GDollar: Person::Person(int) called

30Faculty::Faculty(int) called

30Person::Person(int) called 30Student::Student(int) called 30TA::TA(int) called 30

How to run this program? GDOLLARc <Filename.Gdollar>

C) ABSTRACT CLASS

What did you meant by Abstract class?

Abstract class defines an Abstract concept which can't

be instanated using new Operator().

Where compare to multiple Inheritance it has an implementation where multiple Inheritance cannot have.

```
<GDollar>
<IMPORT> P
 class Programs1
   public void LIB()
     Subject subject = <NEW> Subject();
     GDOLLAR.WriteLine(subject.Describe());
   }
  }
  abstract class Topic
   public virtual string Describe()
     return "we are seeing science subject";
 class Subject : Topic
public string Describe()
     return "We are seeing maths Geometry subject";
```

```
}
More about COLLECTIONS
Treeset
_____
Treeset represent a collection that uses Tree datastructure for storage
Items in the collections are stored in Ascending or descending order.
<TS> objectname = new <TS>(<String>);
objectname.add(elements);
Write a GDollar Program about Treeset?
remaining things Developer should fill it.
<GDollar>
<CUTIL>
<IMPORT> P
class tree
public void lib()
  <TS>t = <NEW> <TS>("wee");
```

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```
t.add("13");
t.add("15");
t.add("12");
t.add("1");
GDOLLAR.WriteLine(""+t.ASCDisplay());
GDOLLAR.WriteLine(""+t.DESCDisplay());
Output:
Order=ASC[4][31][100][211][1123]
**********
Order=DESC[1123][211][100][31][4]
**********
Order=ASC[abraham][dion][priya][rahul][shiyam][wilmix]
***********
Order=DESC[wilmix][shiyam][rahul][priya][dion][abraham]
Operators conditions and loops
Operators
-----
+ => ADD
++=> Increment
- => Substract
--=> Substract
* => Mulitply
/ = Division
~ => bitwise unary not operator
```

```
NOT (!) => flips true values to false and false values to true.
>>, >>>, and << => IT is used to shift all the bits of a number left
or right
a Specified number of places...
Other Operators
AND => And operator
OR => OR operator
?: => value =condition ? value1 : value2 (similar to if then else)
== => compare two values...
= => Assignment operators
EQ => Compare two objects
Relational Operators
_____
>>==> Greater than , Greater than equals.
<==> Less than, Less than equal
NOTEQ => Equals and not equals
NotEQ simillar to !=
CONDITIONS
_____
IF Syntax:
_____
if <condition> statements;
IF then else Syntax:
if <condition> statements else statements1
if <condition> statements1 else if condition1 statement2 .... and soon.
SWITCH Statements:
_____
switch (expression)
case value1:
statement1;
[break]
.....
case valuen:
statementn;
[break]
____
default:
default_statement;
Explanation:
If the expression is equals value1
statement 1 will be executed.
```

if you use break it comes out of the loop otherwise it continue to execute next statement.

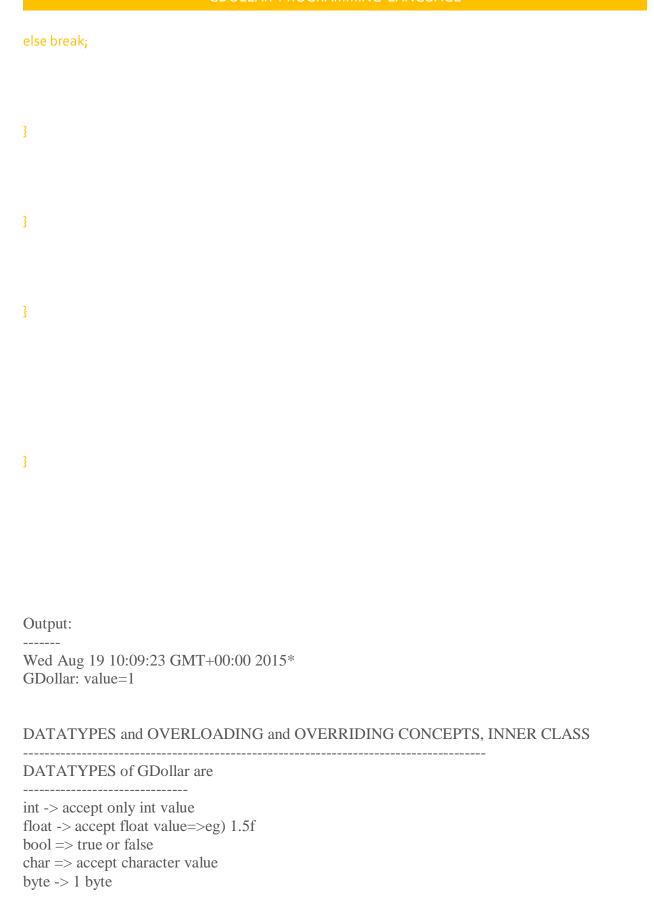
The default value at the end is optional. It can be included if there are other values that can be held in

your variable but that you haven't checked for elsewhere in the switch statement.

```
THE WHILE LOOP
```

```
while (<condition>)
< Statements block>
Note: if the condition is true the block get executed.
otherwise the loop will be continued.
THE DO --- WHILE LOOP
do
< Statements block>
while( <condition> )
Note: if the condition is true the block get executed.
and it is tested at the end of the loop, but not at the
beginning. The loop will be continued until it satisfies the condition.
biggest reason to be use the do - while loop is that
when you need the body of the loop to be run atleast once.
FOR LOOP
for (identifier=value; cond1; iterator operators)
< Block statements >
For -EACH Statement
       //retrieving value using foreach loop
       foreach (string <VAR> in <OBJECT>)
          statements;
If you add integers (1 to 3) to arraylist
and if you wish to copy and store it in an integer variable
so that you can print the values that is copied from
arravlist.
Then follow this method of for each statements...
string[] hobies = { "twitter", "cricket", "footbal"};
```

```
foreach (string hob in hobies)
GDOLLAR.WriteLine("value="+hob);
Output:
value=twitter
value =cricket
value =footbal
CONTINUE and Break
_____
Break means it break out of loop
and continue means
it will continue to execute the statements;
Program: WHILE LOOP with continue and break if statement...
<GDollar>
<CUTIL>
<IMPORT> P
public class WHILE
public void LIB()
int a=o;
while (a <=10)
{
a++;
GDOLLAR.WriteLine("value="+a);
if (a==9) continue;
```



```
short -> 2 bytes
long-> 8 bytes
double-> for eg) 1.2121233232E9 => Accept double value
ARRAY => It is used to store values and had fixed size.
ARRAY
SYNTAX:
datatype[] object = <NEW> datatype[10];
<GDollar>
<IMPORT> P
{
public class abc
public void LIB()
int []a = <NEW> int[10];
for (int i=1;i<=9;i++)
{
a[i]=i;
GDOLLAR.WriteLine(a[i]);
```

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}

}

3

}

OTHER KEYWORDS IN GDollar

AND -> AND operator

NOT -> NOT operator

-> NOTEQUALS

RUN -> Runnable used in thread

TH-> Thread

<EXE> -> Exception

Friends -> Frend function

INNER and OUTER CLASS

Inner class are nested inside outer class even if the fields declared as private members.

```
<GDollar>
<IMPORT> P
class Outer {
private Shared int privInt = 10;
public void createInnerClass() {
Inner inClass = <NEW> Inner();
inClass.access();
class Inner {
public void access()
{
GDOLLAR.WriteLine("The outer classs privInt is " + privInt);
OVERLOADING AND OVERRIDING functions
OVERLOADING
A functions with same name but different signature is called
```

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as Overloading concept.

```
public void display(int i , String j) {}
=> If you pass int and string values from main program it will call
this function.
ABC a = \langle NEW \rangle ABC(10, "ewew");
public void display(int i, int j) {}
ABC a = < NEW > ABC(10,20);
=> If you pass int and int values it will call this function.
OVERRIDING
A function with same name and same signature
will cause overriding....
Overriding can be avoided by using super() keyword.
in another class.
<GDollar>
<IMPORT> P
public class section
  public virtual string display()
    return "CLASSA";
public class student:section
  public override string display()
    return "CLASSA-100students-computerscience";
Note: this will cause overriding
and it can be avoided by using super () keyword.
OTHER ATTRACTIVE SYMBOLS in GDollar
--> => implements
<-- => extends
```

UNIT: 5
FILE,Other collection concepts,Advanced Concepts of GDollar,MISC-2,Exception and Error,Garbage collection,Threads,Generics,GDollar Structures.
Advanced Topics in GDollar
OTHER COLLECTIONS CONCEPTS
<m> => map MEANS IT CONTAINS KEYS AND VALUE PAIRS HashSet</m>
SYNTAX: <hashset> h <new> <hashset>(index);</hashset></new></hashset>
h.add(data); <println>(""+h.GET());</println>
HASHMAP
SYNTAX: <hashmap> h <new> <hashmap>(index);</hashmap></new></hashmap>

```
h.put(null, null); //you can also put null key and null value
h.put((data), null);
   h.display();
HASHTABLE
SYNTAX:
HashTable h <NEW> HashTable(index);
   h.put(key, value);
                      h.display();
note: hash determines a order in which elements are
stored in the hash; SO it will display according
to hash stored order.
ADVANCED CONCEPTS of GDollar
ITERATOR
_____
Iterator iterate about collection
in the forward direction.
and it will iterate record wise from the List or collection.
foreach( int a in stringarray)
Here foreach statement is used for iterative purpose.
Exception and ERROR
Exception is a abnormal condition that arise during
the code sequence at run time.
<TRY> -> try in C/JAVA
<CATCH> -> catch in c/java
<Finally> -> final in c/java
SYNTAX:
_____
<TRY>
< Executable good statements>
<CATCH> (<EXE> e)
GDollar.WriteLine(""+e);
<Finally>
<Final block statements>
```

Explanation: When ever the Exception is true statements inside a try block is executed; otherwise statements inside a catch block is executed. Exception occurs or not final block get executed.. FINAL in GDollar _____ UnShared keyword means final in GDollar eg) UnShared int i=9; // if a variable is declared as final that value can't be changed. UnShared class abc if the class is declared as UnShared it can't be overridden. so if the method is declared as UnShared such method can't be overriden by another class method. Destructor: Destructor means object is going to be destroyed. where ~ is the Destructor operator. Operator Overloading in GDollar This means we can overload the operators like + - = / > < >= <=

<GDollar>

```
<IMPORT> P
UnShared class operatoroverloading
{
public Shared void operator *(int s1, int s2)
int s3=s1 * s2;
GDOLLAR.WriteLine(""+s3);
public Shared void LIB()
operator *(10,10);
operator *(200,10000);
}
```

GENERICS

GENERICS means which is used to Pass Type as argument as class for example if you want to pass String , int, float datatypes at the same time and if you use display method to display the value of any datatype

so Generic is most useful in that case.

<GDollar>

```
<IMPORT> P
{
  public class GEN<T>
{
    Tt;
  T display(T t1)
  {
    t=t1;
    return(t);
  }
  public Shared void LIB()
  {
    GEN <int> i = <NEW> GEN<int> ();
    GDOLLAR.WriteLine(""+ i.display(10));
  }
}
```

GDollar STRUCTURES

GDollar structure is another user defined data type available in GDollar programming, which allows

you to combine data items of different kinds.

using the same memmory location. It also provide an efficient way of using the same memory location for multi-purpose.

Thus GDollar Structures is Equivalent = C programming Structures and union. and it uses less memmory capacity than any Programming languages. IT is also used to store collections, objecte, etc.

IT is the most important datastructure implemented by wilmix jemin j.

He reduces the demerits of C Programming and

C child is GDollar. So GDollar has very beautiful and Advanced Concepts than any Programming Languages. And the Native Technology like JAVA fails to do.

ADVANTAGES:

Billing programs, GUI, Record wise Search and Printing ,etc...

UNIT-6: GDollar NETWORKING

GDollar Networking

N/w are essential to our life. Intenet is born due to networking and A method of Client -server communications gives like a house - to house interaction.

CLIENT SERVER PROGRAM

```
<GDollar>
<%
class CLIENTSERVER
public Shared void LIB()
<CLIENT>("WILMIX","1099"); // Declare client and call client and pass hostname
and port
<SERVER>("1099");//Declare server and server and pass portno
%>
?>
```

OUTPUT:

Sat Aug 22 08:52:19 GMT+00:00 2015*GDollar: Connecting to WILMIX on port 1099Waiting for client on

port 1099...Socket timed out!

MISC, Advanced Concepts

Let us consider a Program to print using WHILE LOOP Program -1 <GDollar> <% public class WHILE public Shared void LIB() int a=o; while (a <=10) GDollar.WriteLine("value="+a); %> ?> Compilation: GDOLLARc WHILE.Gdollar Output: (note: at One time compilation you will get this output in windows platform) ******************** Tue Mar 01 1 3:30:08 IST 2016*JAS: Error: **************** ************** WHILE Tue Mar 01 13:30:09 IST 2016 GDollar: Output: value=1value=2value=3value=4value=5value=6value=7value=8value=9value=10va lue=11Error: value=1value=2value=3value=4value=5value=6value=7value=8value=9value=9value=1value=8value=9value=1val e=10value=11

What is Pointers?

Variables that hold memory address are called pointers.

Why we mainly use Pointers? Pointers reduces the length and complexity of the program, They increase the execution speed. It holds the memmory address. SYNTAX of GDollar Pointers: {*} <pointer-name> Pointers(intialvalue); for eg) <Str> s ="Life is beautiful"; {*} 1 Pointers(s); The given above statement will store the string "Life is beautiful" in Pointer name 1; Example: <Str> s="dsdds"; {*} I Pointers (s); l.add(s); for (int i = 0; i NOT = I.size(); i = i + 1) { <OBJECT> obj=l.GETKEY(i); <PRINTLN>(obj); what is the output? dsdds dsdds **BUCKET** Bucket are used to store key, value data, and Generated Random number where datatype may be string ,object ,etc.

SYNTAX:

Bucket<DATATYPE> list = <NEW> Bucket<DATATYPE>(<DATATYPEVALUE>); list.KeyAdd(<DATATYPEVALUE>); list.add(<DATATYPEVALUE>); list.RandomAdd(); list.Display(list); Advantages Using Bucket you can also Retrieve the values stored n position. Searching and Insertion is fast than other DTS. Random Indexing is possible. eg) If you store a duplicate value such Random key will be different. It also used to add many values. **EXTEND** Extend class is used in GDollar since to provide multiple inheritence about 100000000 classes. Extends class also list values in methods and constructor values. Extend means a Bucket contains List of class and it is also Behave like Bucket. So it is also one of the Advanced concepts in GDollar. **SYNTAX:** EXTEND <<DATATYPE>> list11 = <NEW> EXTEND <<DATATYPE>> (STRING); list.KeyAdd(<DATATYPEVALUE>); list.add(<DATATYPEVALUE>); list.RandomAdd(); list.Display(list); Advantages: It is also used to add many values Indexing is possible Value can also be list by index and behave like bucket. It list only the class value and object value. It is stateless. PIPE: PIPE is used to maintain stateful state. It is used for DataFlow in a Program. We can also add the values, Constructor values of one class and other class and display it. It also list the values from the Bucket. **SYNTAX:** Pipe <<DATATYPE>> list11 = <NEW> Pipe <<DATATYPE>> (STRING);

list.KeyAdd(<DATATYPEVALUE>);

list.add(<DATATYPEVALUE>);
list.RandomAdd();
list.Display(list);

Why we Prefer GDollar for software Field?

Used in BILLS, Forms ,Reports,Charts, any software project , GRAPHICS to web etc.

UNIT -7 :GDollar CODING STANDARDS AND ADVANTAGES OVER OTHER PROGRAMMING LANGUAGES

```
Coding Standards of GDollar
------
proper syntax fill it...

<GDollar>
<USE> packages;

<CUTIL>
<IMPORT> P

{
public class <classname>
{
<! LOGIC!>
}
}
```

Note:

ALL Program should Start with <GDollar> means starting of a Program and scucceded by <IMPORT> package name to load GDollar packages use <CUTIL>.

Shared means Static keyword.

```
Shared will be executed first after that Main program will
be executed.
Shared
{} => This curly braces are mostly used.
SOME OPERATOR KEYWORDS
AND => \&\& in java
NOT = > !
# => !=
NEW Keyword
_____
NEW is used to create an instance in memmory.
Always concenterate on important keyword not need to
memmorize at all.
DATATYPES:
int, char, double, float are ordinary keywords of oops
Programming language like C/JAVA/C#/GDollar.
STRUCTURES:
Always use Structure DATATYPE to store your data in objects form
so that it will reduce the storage allocation in memmory.
for one object it takes only 1 byte of memmory for structures.
RECYCLE:
Always use RECYCLE to make the unwanted object to be garbage collected.
//
If you want to describe something about your functions
use // . Don't use it unnessary at any way.
Special Characters
_____
@,$%,^,[] are not allowed in the CDOLLLAR program
Use Destructor keyword to specify non GDollar resource deletion code to
be goes when you it...
Other Things
for loop, if statements, while loop, do while,
for each, Switch statements, AutoBoxing, Generics, etc
are same.
Did GDollar support pointer?
```

YES.

private LinkedList nextNode =null;

consider this line; This line creates a pointer to a class LinkedList.

nextNode=new LinkedList(datum);

This statements are use to insert first data to Linkedlist nextNode.add(datum) is used to insert many data....

Class Inheritance

If the Class is using another class variable in that case you had to use <--- "extends" backward arrows and front arrows --> for implements..

Implements is used when you use friend function.

GDollar Advantages over JAVA and other Programming Languages

- 1) GDOLLAR PREVENTS CODE STEALING SO IT IS WIDELY USED. GDOLLAR intermediate code tells that this programmer had coded it.
- A) GDollar is the combination of JAVA, C/C++, and Advanced OOPS.
- b) GDollar will only accept the shortest attractive syntax.
- c) GDollar also used for construction of any datastructures.
- d) GDollar helps the developers to provide inheritance by not using extends keyword

and call the class in main program when use in linux.

- e) GDollar Solves diamond Problem with multiple Inheritance when used in linux.
- f) It also supports friendly function, pointers, and structures.
- g) GDollar support Virtual memmory and garbage collection.
- h) It is efficient, fast and easy to understand, and it is a OOPS Technology.
- i) GDollar is a High level language.
- j) GDollar is highly portable language
- k) Using GDollar you can create any datastructures as libraries and use it in your Application program.
- l) GDollar language is a structured and object programming language.
- m) GDollar has OOPS concepts like JAVA.
- n) GDollar have the concept of Packages, etc.
- o) GDollar have the concept of constructor or destructor and had magic oops concepts.
- p) It Support functions with Default Arguments
- q) It Supports Exception handling
- r) It Support Generic Programming
- s) It have pointer and Nodes..
- t) GDollar is much simpler oops concepts, which leads to faster development and less mental overhead.
- u) GDollar is almost always explicitly compiled
- w) GDollar is easy to learn. GDollar was designed to be easy to use and is therefore easy to write.

compile, debug, and learn than other programming languages.

GDollar is object-oriented. This allows you to create modular programs and reusable code. GDollar is platform-independent.

x) GDollar creates .exe or .dll files and it can

be used with GDollar main program (CWE EDitor) to create a complete software.

- y) GDollar will compile and run at same time where other technology can't do
- z) GDollar is mainly used in complex programming , Billing the goods, Graphics, etc
- AA) GDollar is platform independant language
- BB) GDollar is an interactive Technology.
- CC) GDollar is used only in companies and industries.
- DD) GDollar is used in compiler design and datastructures construction.

UNIT -8:GDollar MAIN Program Syntax AND ADVANCED CONCEPTS PROGRAM.

Syntax:

```
<GDollar>
<INVOKE>
<PACK> <NAMESPACE>

<CLASS> <CLASSNAME>
{
   public FLOAT GDollar-MAIN()
   {

<! GDollar Logic !>
}
```

?>

BAG

=====

Bag is the extension of LinkedHashmap and it is the fastest datastructures than Dictionary.

```
SYNTAX:
======
<GDollar>
<INVOKE>
<PACK> bags
  <CLASS> bags
   public FLOAT GDollar-MAIN()
   Baq b < NEW > Bag();
b.PUT(1,34); // KEY AS 1 AND VALUE AS 34
b.PUT(2,444);
<PRINTLN>(""+b);
?>
Bag object = new Bag();
object .put(key,value);
Functions
getValues(key) => it is used to get the values for a particular key
get(key,loc) => it is used to get the value stored at a loc (indexing
purpose)
boolean containsValue(object Value) => To check the value present in bag
or
not.
put(key,value) => it is used to add key and value in Bag
remove(key ,value) => It is used to remove key and value.
```

```
TreeList
=======
TreeList similar to Bucket but store items in tree format.
TreeList list = new TreeList ("BUCKETS");
list.KeyAdd(KEY);
list.add(VALUE1);
list.RandomAdd(RANDOMNO);
list.DisplayO(list,0);
MASK
====
It is the extension of Tree Structure and it can store many values
using mask object and we can also retrieve the values stored in mask.
Mask m = new Mask(<DATATYPE>);
m.add(multiple values);
m.getR(Loc); => Get the values stored in right position
m.getL(LOC) => Get the values stored in left position
HEAP:
====
Creates a tree, puts the data into tree in a fairly balanced way and displays
the tree's size and data in a tree by performing an inorder traversal.
Heap hob = new Heap(<datatype>);
hob.add(datum);
hob = new Heap(key, value1, value2);
Bucktist
=====
Bucktist is simillar to Bucket but it is used to addd two values with one
key.
Bucktist I = null;
l= new Bucktist(key,value1,value2);
```

```
WICKET
======
Wicket is used to store multiple values using same object with
4 values per key.
Syntax:
Wicket list12;
list12=new Wicket(key,v1,v2,v3,v4);
list12.Display();
list12.Display(list12,location);
EXAMPLE -1: BAG
```

```
EXAMPLE:2 : GDOLLARARRAYS
========
<GDollar>
<PACK> MyP
{
  <CLASS> Programs
  {
    public FLOAT GDollar-MAIN()
    {
<CDOLLARARRAYS> list1 <NEW> <CDOLLARARRAYS>("ANIMALS ");
    list1.add("1 horse");
list1.add("2 pig");
list1.add("3 cow");
list1.add("4 goat");
list1.add("5 chicken");
list1.add("6 ostrich");
list1.Display();
?>
```

EXAMPLE-3: CREATE AN BOOTLOADER Using GDollar

```
<GDollar>
<PACK> MYOS
 <CLASS> MYOs
 {
public FLOAT GDollar-MAIN(){
<PRINTLN>("HelloWorld for booting MYOS");
?>
EXAMPE-4: POINTERS
<GDollar>
<PACK> MyP
  <CLASS> Programs
  {
    public FLOAT GDollar-MAIN()
<Str> s="dsdds";
```

```
{*} I Pointers (s);
l.add(s);
for (int i = 0; i NOT = I.size(); i = i + 1)
{
<OBJECT> obj=I.GETKEY(i);
<PRINTLN>(obj);
}
?>
EXAMPLE-5: DICTIONARY
<GDollar>
<USE> CUTIL; //load CUTIL packages
<PACK> DTS
<%
  <CLASS> roots
  {
    public FLOAT GDollar-MAIN()
    <Dictionary> h <NEW> <Dictionary>(11);
```

```
h.Add((80), (90));
   h.Add((40), (400));
   h.Add((65), (650));
   h.display();
   h.Add((58), (580));
   h.Add((24), (240));
   h.display();
   h.Add((2), (20));
   h.Add((13), (130));
   h.Add((46), (460));
   h.Add((16), (160);
   h.Add((7), (77));
   h.Add((21), (271));
   h.display();
   <TRY> {h.Add((99), (990));}
   <CATCH> (<EXE> e)
   {<PRINTLN>(" out of memory");}
   // update element
   h.Add((7), (2977));
   h.display();
%>
```

?>

```
Example-6: EXTEND
<GDollar>
<INVOKE>
<PACK> MyP
  <CLASS> Programs
    public FLOAT GDollar-MAIN()
    {
EXTEND list <NEW> EXTEND("BUCKETS");
   list.KeyAdd("1101");
            list.add("jemin");
pg. 81
```

```
list.RandomAdd();
             list.Display(list);
<PRINTLN>(""+list.DisplayO(list,1));
?>
EXAMPLE-7: HEAP
<GDollar>
<PACK> MyP
   <CLASS> Programs
     public FLOAT GDollar-MAIN()
Heap root <NEW> Heap("wilmix");
for (int i = 0; i <= 10; i = i + 1)
pg. 82
```

```
{
root.add("item " + i);
}
<PRINTLN>(root.size() );
root.printTree();

?>
```

```
Example-8: LArray
```

```
<GDollar>
<USE> CUTIL;
<PACK> MyP
```

```
<CLASS> Programs
      public FLOAT GDollar-MAIN()
LArray root <NEW> LArray("root");
<ArrayList> ar <NEW> <ArrayList>();
for (int i=0; i < =1000; i++)
ar.add(i,i);
root.add("wilmix");
root.add("jemin");
root.add("shalom");
root.add("1010");
root.add("101");
root.add("201");
root.add(ar.StringConvert());
root.add("100000000");
//print the tree's size and contents
root.printTree();
?>
Example-9: PIPE
<GDollar>
<PACK> MyP
```

```
<CLASS> Programs
public FLOAT GDollar-MAIN()
Pipe list <NEW> Pipe("BUCKETS");
   list.KeyAdd("1101");
             list.add("jemin");
             list.RandomAdd();
             list.Display(list);
<PRINTLN>(""+list.DisplayO(list,1));
?>
EXAMPLE-10: TREELIST
<GDollar>
<PACK> MyP
  <CLASS> Programs
pg. 85
```

```
public FLOAT GDollar-MAIN()
TreeList list <NEW> TreeList ("BUCKETS");
   list.KeyAdd("1101");
             list.add("jemin");
             list.RandomAdd("1111");
TreeList list2 <NEW> TreeList("BUCKETS");
list2.KeyAdd("1102");
             list2.add("rahul");
             list2.RandomAdd("1112");
<PRINTLN>("DATA="+list.DisplayO(list,0));
<PRINTLN>("DATA="+list2.DisplayO(list2,0));
?>
```

Example-11: MASK

```
<GDollar>
<PACK> My
  <CLASS> Programs
      public FLOAT GDollar-MAIN()
MASK root <NEW> MASK("wilmix");
for (int i = 0; i NOT = 10; i = i + 1)
root.add("item " + i);
root <NEW> MASK("root1",1211211,54441);
root <NEW> MASK("root2",121121,5444);
root <NEW> MASK("root5",99121888,"5");
root <NEW> MASK("root3",12112,544);
root <NEW> MASK("root4",1211,54);
root <NEW> MASK("root51",121,5);
root.printTree();
```

?>

```
Example-12: WICKET
```

Example-13: STRUCTURE

```
<GDollar>
<PACK> MyPoi
  <CLASS> Programs
      public FLOAT GDollar-MAIN()
<Str> s="dsdds";
{*} | Pointers(s);
l.add(s);
for (int i = 0; i \text{ NOT} = I.\text{size}(); i = i + 1)
<OBJECT> obj=I.GETKEY(i);
<PRINTLN>(obj);
<STRUCTURE> list <NEW> <STRUCTURE> (I.GETKEY(0));
for (int i11 = 0; i11 NOT= list.size(); i11 = i11 + 1)
{
<OBJECT> el=list.ret(i11);
<PRINTLN>("SNO= "+el);
pg. 89
```

```
}
?>
Example-14: BUCKETIST
<GDollar>
<INVOKE>
<PACK> MyP
  <CLASS> Programs
      public FLOAT GDollar-MAIN()
Bucketist bp <NEW> Bucketist("wilmix");
bp <NEW> Bucketist(1,222,434);
bp <NEW> Bucketist(1,222,434);
bp.Display(bp);
<PRINTLN>("DATA="+bp.DisplayO(bp,1));
?>
```

UNIT-9: G D O L L A R Technology focused for Compiler Design and datastructures design, Regular Expressions, Codin g standards.

COMPILER DESIGN USING GDollar

Introduction of Compiler Design

What is Compiler?

A Translator which transforms a highlevel language such as CDollar, JDOLLAR, C /C++,

Fortran or COBOL into a Particular computer machine or assembly language Is called a compiler.

What is Interpreter?

It Process an internal form of the source program and data at a same time. Ie, interpretation of the internal source form occurs at run time and No object program is generated.

- A compiler must perform two major tasks.
- a) Analysis of a source program
- b) Synthesis of a corresponding object program
- A) Analysis of a Source program
- a) Lexical Analyser

That we know Lexical Analyser is responsible for Splitting the statements into tokens. For eg) If A > B then is splitted as If 20 A 21

>22

/ ___

B 23 Then 24

Lexical Analyzer supplies tokens to syntax Analyzer.

b) SYNTAX ANALYZER

IT's function is to take the source program from lexical

Analyzer and determine the manner in which it is

Decomposed into constituent parts.

Syntax Analyser outputs a syntax tree in Which leaves are tokens and every nonleaf node represents A syntactic class type.

SYNTACTIC TREE is factor, term, expression.

Semantic Analyser

It is main responsible of generation of intermediate form of source code. Eg)

(+,A,B,T1) (+,C,D,t2)

The output of semantic Analyser is passed to code Generator.

At this point the intermediate form of the source program is usually translated to either assembly language or machine language.

The Output of Code Generator is passed on to a code Optimizer.

THE CODE OPTIMIZER

The Code Optimizer is responsible to produce a object or exe or class Or wl files.

ERROR HANDLER

In compiler design Syntax error, invalid characters, out of memory exception, Checked and unchecked exception are the exception occurs if a new User do it. This error function f(X) is to determine the error in source code.

Without error handler no body can predict the errors..

SYMBOL TABLE

A Symbol Table will contains Variable name, Address, Type, dimensions, line declared or referenced, and pointer.

Mostly commonly performed on Symbol table are insertion and Lookup.

STORAGE ALLOCATION

In static storage allocation strategy it is necessary to be able to decide at compile time

Exactly where each object will reside at run time.

But at dynamic storage allocation strategy the data area requirements for the progra m

Are not known entirely at compilation time.

Note: Parser is divided in to topdown parsing and bottom up parsingÂ....

That you refered through many websites.

THE GDollar for compiler Design

GDollar and it's ADVANTAGES

What is GDollar? Who invented it? Who should focus it? GDollar Technology is meant for Developing a compiler By using GDollar Technology and it's DataStructures... which saves time and cost and years; And make you to develop a compiler with in a 6 month.

GDollar Technology is invented by wilmix jemin j in cdollar at first and Fulfilled at year 2013 and modified at C# , JAVA , C/C++ P.L at year 2016.

System programmers, Technology inventors, GDollar Professionals, And professionals who are interested in inventing compiler Should be focused.

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GDollar is an Opensource compiler focused on compiler Design. GDollar belong to JAVA or C/C++ Group family.

GDollar is Invented in JAVA, C/C++, and Editor using Jdollar(JWEB) GDollar virtual machine is used for

oney.

GDollar to run programs. G stands for Beta and Dollar stands for most so we called as Beta Technology.
GDollar is used by IT companies and industries in the world.
Syntax of GDollar:
<gdollar></gdollar>
<use> packages;</use>
<%
OOPS statements !
% >
?>
Merits of GDollar
> It is Good to create any compilers
> It has simplified code
Demerits of GDollar:

It is not concenterated in creating Operating systems. It is concenterated only in creating compilers.

```
How to compile and run GDollar?
GDollarc <filename>.Gdollar
Coding Standards of GDollar
<GDollar>
<USE> packages;
<%
<! LOGIC OF GDOLLAR !>
%>
?>
Note: <% and %> is used to write class and it's logic.
ALL Program should Start with <GDollar> means starting of a Program and succeded
by <USE>
to load GDollar packages and ?> Means End of the Program.
HIDE Unwanted code
_____
<----> program code ----->
MAIN Program:
public void GDollar-Main() indicates MAIN Program
```

otherwise it will not run the Program STATIC BLOCK Shared means Static keyword. Shared will be executed first after that Main program will be executed. Shared

}

{} => This curly braces are mostly used.

SOME OPERATOR KEYWORDS

AND => && in java

NOT = > !

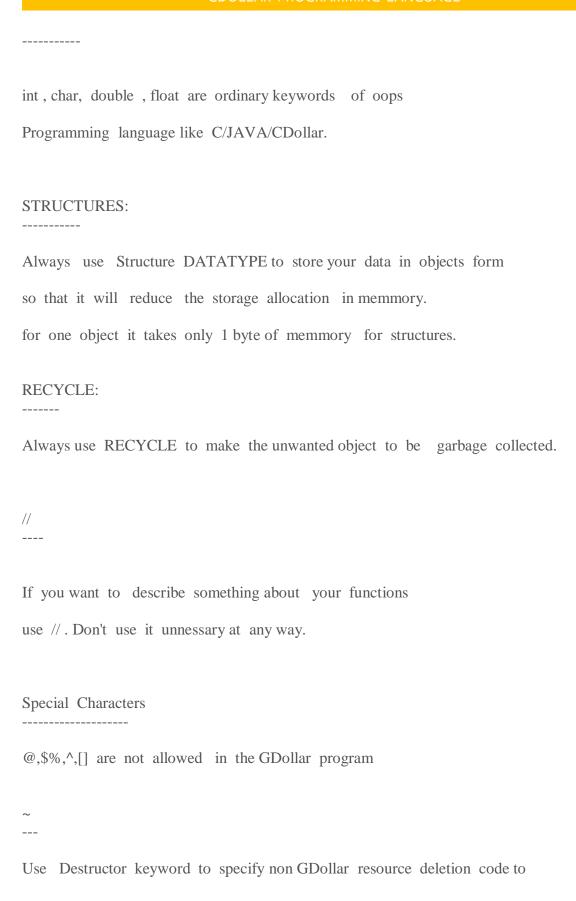
=> !=

<NEW> Keyword

<NEW> is used to create an instance in memmory.

Always concenterate on important keyword not need to memorize at all.

DATATYPES:



be goes when you it...

Other Things ----for loop , if statements, while loop, do while , for each, Switch statements , Generics , etc are same.

Did GDollar support pointer YES.

Class Inheritance

If the Class is using another class variable in that case

you had to use <--- "extends" backward arrows and front arrows --> for implements..

Implements is used when you use friend function.

UNIT-10: G D O L L A R ADVANCED CONCEPTS

UNION IN GDollar

SYNTAX:

UNION u = new UNION(string);

UNION behave like structures but the only difference is

Union has build in functions like

- a) Add(object)
- b) Match(object,pos)
- c) ret(Object)
- d) Size() of object

Advantages:

structures is not used in the comparision of values so union is used.

USECASE in GDollar

USECASE <Object> = new USECASE(datum);

datum may be datatype

- eg) integer or string
- <OBJECT>.Loc1(ob)
- <OBJECT>.Loc2(ob)

USECASE behaves like UNION and is used for storing

objects at Loc1 ,Loc2 that has been used as a comparision with mathu1,matchu2 respectively.

and USECASE uses swithcase statement to asign values

ADVANTAGES:

- i) Behave like struct
- ii) compare the object
- iii) Used for storing objects.

iV) it uses switch case statement

LOOP statement in GDollar:

SYNTAX:

```
LOOP <Object> = new LOOP(datum);
datum may be datatype
eg) integer or string
<OBJECT>.Loc1(ob)
<OBJECT>.Loc2(ob)
```

LOOP behaves like UNION and is used for storing objects at Loc1 ,Loc2 that has been used as a comparision with mathu1,matchu2 respectively.

ADVANTAGES:

- i) Behave like struct
- ii) compare the object
- iii) Used for storing objects.

BOOK in GDollar

SYNTAX:

```
BOOK <OBJECT>= new BOOK(string);
<OBJECT>.STOREA(object,object);
<OBJECT>.STOREB(object,object);
```

It is used for storing object with key and value in STOREA and STOREB. And it is used to compare with match statement

ADVANTAGES

- i) Book is used for storing two block of pages.
- ii) it is used in case of storing large amount of notes and it is used with database.

NOTE:

Examples for GDollar Advanced Datastructures is given in

```
AdvancedDatastructures folders of GDollar Software.
GDollar is powerful than CDollar.
How to compile using GDollar and see the output?
GDollarc <filename>.Gdollar
CJAVA Program
<CJAVA>
<PACK> LArrays
  <CLASS> LArrays
    public void main()
LArray root <NEW> LArray("root");
root.add("wilmix");
root.add("jemin");
root.add("shalom");
root.add("1010");
root.add("101");
root.add("100000000");
//print the tree's size and contents
root.printTree();
```

Now compile using CDollacc compiler what it will happen?

 $\label{lem:condition} F: \xxxxxx \GDOLLARSOFTWARE \ORGINAL \GDollar \outputs > LArrays. cjava. ex e$

1010

wilmix

100000000

root

101

jemin

shalom

UNIT-11: G D O L L A R COMPILER DESIGN

Write a Gdollar Program to create a new Programming language?

```
<JSLASH> //starting Gdollar-jslash
<USE> compiler; //use compiler packages
<PACK> MyP
<%
 <CLASS> Jshell
<%
Shared String[] keywords1 = { "abstract", "boolean", "byte", "case",
            "catch", "char", "class", "continue", "default", "do", "double", "else", "extends", "final", "finally", "float", "for", "if", "implements", "import", "instanceof", "int", "interface", "long",
            "native", "new", "package", "private", "protected", "public",
"return", "short", "static", "super", "switch", "synchronized",
"this", "throw", "throws", "transient", "try", "void", "volatile", "main",
"while", "false", "true",
"null","JSHELL","LOAD","JLOGIC;","CLOGIC","JEND" };
Shared String[] keytab1 = {"LOAD","JSHELL","JLOGIC","CLOGIC","JEND" };
//assign keywords
 public void main()
<%
String t= args[0];
```

```
new Jcslash(keywords1); //assign keywords
String lext=".jshell"; // give extension
String
regx1="\<JSHELL>+|\'LOAD'+|\'JLOGIC'+|\'CLOGIC'+|\<JEND>+";
String
regx2="^\\<JSHELL>+^\\'LOAD'+^\\'JLOGIC'+^\\'CLOGIC'+^\\<JEND>+"
//write
       regular expression to parse the statements
    Jcslash.JParser(t,regx,53,regx1,regx2,lext,keytab1);
// call islash parser
String path="out.txt";
Jcslash.signature(path,lext,t); //this statement will call usedefined CDC
compiler
// so rename your compiler as
CDC.exe create using C/C++ or GDollar...
```

%>

Output:

Now you will get Jshell compiler which accepts attractive syntax... (ie jshell.dll.exe in outputs folder) with in 3 seconds...

Good bye to today olden methods...

So Gdollar is very exiting and powerful compiler.

GDollar Directory structure is given below?

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UNIT -12: GDollar Mock Exercises

GDOLLAR MOCK EXERCISES

(1* 100 = 100 marks)

- A) Develop a Accounting software with Credit/Debit /Discount on the goods sold and name of the Bank be ABC Ltd, use it in text format using GDollar.(10)
- B) Develop a Telephone bill using CDollar

Advanced OOPS in Console. (10)

- C) Briefly Describe G\$ Program work flow with it's Advantages(5)
- d) Write a Gdollar-JSLASH program to create a Programming language with

```
<NODE>
<IMPORT>
<%

<! Compile only oops logic !>
%>
```

(1 * 30 = 30 marks)

f) GDollar Mini project (1 * 15 = 15 marks)

In a Atm Transcation

- i) Write a C\$ program for Atm Transcation form using Cdollar Graphics.
- ii) USE CDollar with WNOSQL DB
- iii) Perform Transcations like Debit

5000rs or you wish.

If the A/c is low popup message is displayed that a/c is low.

- iv) Prepare a Report Based on C\$ Transcations
- v) USE GDollar with CDollar in this case for Software Development.
- g) Write A Gdollar Program to create a datastructures like (3 * 10 = 30 marks)
 - A) QUEUE BASED SYSTEM
- B) LINKED LIST
 - C) Tree Structure System

BIBBLIOGRAPHY

GDollar Latest Tutorial will be updated in the given below Websites.....

GDollar TUTORIALS

kindly go thru given tutorial url for more details....

https://sites.google.com/site/gdollarprogramminglanguageg/gdollar-g-tutorial

GDOLLAR Version 1.0 Professional Edition

Opensource

JeminInformationTechnology

WILMIXJEMIN J

This Book Will help You Do:

- New Features of GDollar1.0
- Software Developement
- Prevent Code Stealing
- Principles of Compiler Design
- Compiler Design using GDollar-JSLASH
- Code Obfuscation
- GDollar DataStructures Construction
- Mock Excercises