- 1) Introduction.
- 2) Various mays to make an object clégible for G.C.
- 3) The methods from suequesting JVM to sun gastbage Collectors.
- 4) finalization.

Garbage Collector: >>

-) In Old languages like c++, Coneation & distruction of object is suspensibility of perogrammen only.
- → Usually programmer taking very much Care while Caeating objects
- F his reglecting destruction of useless objects. due to this neglectance
 - of Second point of time for the Coneation of New Object Sufficient
- memory may not be available & entire perogenam will be collabs due to
- Memory problems.
- but an Java, perogenamment is sexponsible only for Conection of Objects and He is not susponsible for destruction of useless objects.
- J → Sun Pelople parovided one assieblent which is always suring in the
 - background for destruction of useless objects due to This assistant
- The chance of faillure java program with memory poroblem is very more.
- This assistant is nothing "Gambage Collection".
- Hence, the main objective to Garbage Collector is to destroy useless

objects.

The Vascious	ways to make	αn	object	elligible	for G.c:-
- × -	U	>		= > '	×

→ Eventhough pergenammen is not nexponsible to destiny useless object of it is always a good perogenaming practice to make an object eligible for G.C if it is no longer nequined.	مد هشر کاند وه
→ An object is Said to be eligible for G.c., if it doesn't Contain any steperates. → The following are Various possible ways to make an object eligible for G.c.	
The forence the outsmotic up that object eligible from G.C.))))
Student S1 = New Student(); S1 - Student S2 = New Student(); S2 - Student Object	0 0 0 9 9
S2= notices S2 0	0

http://javabynataraj.blogspot.com 223tof 401.

Note:-

1

_

3

Э

)

Э

9

)

0

0

For Garbage Callectors.

-> Eventhough object having obj the Dreference Still it is aligible for

G.c Sometimes (Island of Isolations) 0

The methods for degreening 4010) to hos garbage collector:-	
→ When even we are making an object eligible for G.c it may not	
be destroyed by Gc immediately when ever June suns garbage	;
Collection then only that object will be destroyed.	. j
→ Coe Can Stequest Jun to Sion gastage Collector, perceptamaticall wheather Jun accepts over Frequest asie not there is no gastantee. → The following asie vasious ways from this stequesting Jun to sun and	y 3
By System class:)
-> System class Contains a Static method Q.c, from this)
System.gc();	•)
@ By Quintime Class:	•
- A A A A A A A A A A A A A A A A A A A) a:
- By using suntime object a Java application an Communicate with	9 :
₹vw	.)
-> Runtime class is a Singleton class here we Can't Coreate)
Runtime Object by using Construction.	9 9
-> we can coneak a Runtime Object by using factory method get Runt	5n2
)
Runtime on = Rontime.get. Runtime();	•
-> Once we got Rontine object we can apply the following methods on that) မ
Object.	9
(a) freeMemory() returns freememory in the Heap,)
	O
(b) total Memoryles " total a de the Heap (Heap Strail)	O
(c) gc1) - foor enequesting Jum to Run garbage Collector,	0
	25 of 401.
	Garatt.

```
ep!
          class Rustine Demo
            p. s. v. main (String [] args)
               Rustine 9 = Rontine gel-Rustine (),
               S. o.pin (or. total Memory ()).
                S.o. pln (on . Free Memory (1);
               for ( int i=1; % =10000; i++)
                   Date d = new Date();
                   d=Null;
                S.o.pln (or faree Memoay ());
                  Drgc();
                   System.out. paintin (or BreeMemoory C);
I which to the following is the properties of requested Jun to sun
  D System.gc();
                         Csystem is Startic mothed
) X2) Runtime.gc(); (Runtime is instance method)
                                         (3 c is appliable only Static method)
) X 3) (Dew Rontime(1).gc(1);
) ~4) Runtime .getRuntime().gc();
  Model- gers present in the System class is a Static method, where ag
   9 CL) prosent in the Rootine class is instance method & succommended to
    (use System.gcc);
```

http://javabynataraj.blogspot.com

finalization &-

₩•X ==	:
→ Just before destroying any object, garbage collector always	: · •
Calls finalized method to perform clean-up activities on that	7
Object	• }
)
-> Pinalizer) method declare in object class with the following	ژُ ا
Okelasiation.	
Parotected void finalized throws throwable.	• • •
) Total Carlotte Military (1700)	$\left(\cdot \right)$
	•
Cose(1)1	•
-> Garbage Collector always Calls finalize() on the object which is	0
eligible for G.c Just before distruction, then the corresponding	()
Class finalizer) will be Executed of Stocky object eligible for G.C	
	•
Then Staing class finalize() will be executed but not Test class	() ()
finalize method.	O
	9
<u>exi.</u> class Test	0
P·S·V·m (Storing[] args)	\mathbf{C}
	\mathcal{Q}
Stowing s = new Storing ("dworga");	C
S = noll;	Ð
System·gc();	0
System. out porintln (" end of main");	9
L Commence of the commence of	0
public void finalize()	0
S.o.pln ("-finalize mettod Called"); O/p: end of main	0

http://javabynataraj.blogspot.com 227 of 401.

```
-> In the above Example String object is eligible for g.c. Hence
    Storing class finalians method got executed which has Empty implemen
 3 8f we are preplacing Storing object with test object, then test class
    finalizers will be executed.
  -> In this case the O/p of a finalize method called
                                      End of main
                                     nian to bus
                                      - Panalize method Called.
    Cases :-
   -> we can Gall finalized Explicitly in this case It will be executed
     Just like a noommal method call & Object work be destoraged.
  -> Bust Before destruction of object G.c always Call finalize().
    ex?
             Class Test
              p.s.v.m (Storing [] args)
•
.)
                Test t = new Test();
                   E. finalizel);
Э
                    E finalize();
)
                    t= Dull;
()
                   System-gc();
                   S.o pin ("End of main");
                                                         %.
7)
                                                       finalize method Couled
               Public void finalize()
                                                       -finalize method Caved
                                                       end of main
                S.o.pln (" Inalize method Called)
                                                       finalize method Carles
                                             http://javabynataraj.blogspot.com 228 of 401.
```

Explicitly by the programmes & One time by the Garbage Calectors. Note: - Before destruction of Servelet object web Centurners always Calls destroy mutual, to perform Clean-up activities Bot - The is possible to Called destroy U explicitly from initial & Bervica Coll in this case it will be executed Just like a normal method call and sorvelet Object work be destroyed. Case(3):- - If we are Calling finalizes, suplicitly & while executing that finalizes if any exception socied & carcaught, then the program will be to forminated abrommally. - If G.c calls finalizes of while executing that finalizes, if any exception socied is uncaught than Jun Simply ignories that any exception socied is uncaught than Jun Simply ignories that any exception socied is uncaught. - Class Test - Ps.v.m (String 17 any) - Test t = new Test O; - Efinalizes; — Flinco - E-null; - System-ges; - Sopin ("end of main"); - One of the case of the collection of the case of the case of the called mains); - One of the case of the cas	Se above psignam thatially got executed 3 times, or mus
→ Before destraction of Servelet object web Centainer always Calls destroy muthod, to perform clean-up activities, Bot → The is possible to Called destroy (1) Explicitly from init() is Service() in this case it coil be Executed Just like a noormal method () Call and Servelet Object work be destroyed. Case(3):- → If we are Calling finalize() Explicitly i while executing that finalize() if any Exception raised is uncaught, then the program will be to the executing that finalize(); if any Supplies raised is uncaught than Jum Simply ignores that the currently concepts Exception is restricted to the program will be executed normally of the executed normally of the executing that finalize(); if any is the program will be executed normally of the finalize(); if any is the program will be executed normally of the finalize(); if any is the program will be executed normally of the finalize(); if any is the program will be executed normally of the finalize(); if the program will be executed normally of the finalize(); if any is the program will be executed normally of the finalize(); if the program will be executed normally of the finalize(); if the program will be executed normally of the finalize(); if the program will be executed normally of the finalize(); if the program will be executed normally of the program will be executed to the program will be executed normally of the program will be executed to the pr	Ely by the perogenammen & one time by the Garbage Collection.
Defore destroction of Servelet Object Web Container always Calls destroy method, to perform Clean-up activities Bot The is possible to Called destroy U explicitly from initial is Service in this case it will be executed Just like a normal method in this case it will be executed Just like a normal method in this case it will be executed Just like a normal method in the case of and sometet Object work be destroyed. Case 3: The we are Calling finalized Suplicitly is while executing that finalized if any sucception socied is uncaught, then the program will be a sucception socied is uncaught. Sucception socied is uncaught. Then Jum Simply ignores that it uncaught exception is sost of the program will be executed rormally of the class test. Prover (String Clary) Test to prove the program will be executed rormally of the finalized; I fine the program will be executed rormally of the finalized; I fine the program will be executed rormally of the finalized; I fine the program will be executed rormally of the finalized; Sol- class test. Prover (String Clary) Test to prove the program will be executed rormally of the finalized; Sol- class test. Sol- pln ("end of main"); Sol- pln ("end of main");	
destroy method. to perform Clean-up activities Bot > The is possible to Called destroy U explicitly from initial previous of its tisse a normal method is the initial sound to the control of the case it will be executed Just like a normal method is Call and Somelet Object work be destroyed. Case(3):- > If we are Calling finalized, Explicitly is while executing that finalized if any susphism raised is uncaught, then the program will be the control of the executing that finalized, if any is any is gnowns that the control of the executing that finalized, if any is control of the executing that finalized, if any is control of the executing that finalized, if any is control of the execution of the	destruction of Servelet object Web Container almost Calls
The is possible to Called destroy U explicitly from init() is service () in this case it will be executed Just like a noormal method () Call and Sorvelet Object work be destroyed. Case(3):- If we are Calling finalizer, suplicitly i while executing that finalizer of any exception raised is uncaught, then the pregram will be of God calls finalizer i while executing that finalizer, if any exception raised is uncaught. Then Jum Simply ignores that oncome uncaught exception is rested to the program will be executed normally of the executed normally of the executed normally of the executed rainally of the executing that the exec	v
To This case it will be Executed Just like a normal method ; Call and Sorvelet Object work be destrayed. Case(3):- Pland we asse Calling finalizer, suplicitly of while executing that finalizer; if any suception scaled of curcaught, then the program will be toominated abronomally. Prominated abronomally. Procential than Jum Simply ignores that curcaught Exception scaled is uncaught. Then Jum Simply ignores that curcaught Exception of Seet of the program will be executed normally of the curcaught Exception of Seet of the program will be executed normally of the class Test Province Ching (1) any) Test t = new Test (); to finalize(); — thereo to pln ("end of main"); System get); Soplin ("end of main");	•
Call and Somelet Object work be destrayed. Case(3):- 3f we are Calling Finalizer, Suplicity & while executing that finalizer, if any Exception raised & curcaught, then the Program will be. Frominated abordamally. 3f G.c calls finalizer) & while executing that finalizer, if any if sucception raised is uncaught then Jum Simply ignores that uncaught Exception & restrictions Curcaught Exception & rest of the program will be executed normally of the class test 1/ ps. v.m (String (1 any)) 1/ test t = new test 0; 1/ finalizer; — I line 0 1/ System-ger; 1/ S.o. pln ("end of main");	possible to called desing is explicitly from initio coernal
Case(3):- If we are Calling finalizes, suplicitly & while executing that finalizes of any suspension raised & uncaught, then the program will be frominated abordinally. If G.C calls finalizes & while Executing that finalizes, if any sucception raised is uncaught. Then Jum Simply ignores that uncaught Exception & rest to the program will be executed normally of the class test. Onl- class test. Ins. v.m (String (1 any)) Test t = new test of the program will be executed normally of the finalizes; — fines the finalizes; — fines of the program will be executed normally of the finalizes; — fines of the program will be executed normally of the finalizes; — fines of the finalizes; System-ges; Sophin ("end of main");	is also it will be Executed Just like a noonmal method
Case(3):- If we are Calling finalizes, suplicitly & while executing that finalizes of any suspension raised & uncaught, then the program will be frominated abordinally. If G.C calls finalizes & while Executing that finalizes, if any sucception raised is uncaught. Then Jum Simply ignores that uncaught Exception & rest to the program will be executed normally of the class test. Onl- class test. Ins. v.m (String (1 any)) Test t = new test of the program will be executed normally of the finalizes; — fines the finalizes; — fines of the program will be executed normally of the finalizes; — fines of the program will be executed normally of the finalizes; — fines of the finalizes; System-ges; Sophin ("end of main");	nd Servelet Object Worlt be destroyed.
Forminated abordonnally. Forminated abordonnally. Forminated abordonnally. Forminated abordonnally. For Calls finalize() { while Executing That Pitalize(), if any if any if the program will be the processor of the program will be the controlled of the program will be executed normally of the class Test Ps.v.m (String [] any) Test t= Dew Test (); t. finalize(); — FlineD E=Dull; System.gc(); S.o. pln ("end of main");	?-
From nated abromally. → 3f G.c calls finalize() & while Executing that finalize(), if any Brighton proseed is uncaught then Jum Simply ignores that Uncaught Exception & Dest of the porogoam will be executed normally of Onl- class Test Ps.v.m (String [] any) (Test t= new Test U; b. finalize(); Finalize(); Septem-gc(); So plo ("end of main");	
From nated abromally. → 3f G.c calls finalize() & while Executing that finalize(), if any Brighton proseed is uncaught then Jum Simply ignores that Uncaught Exception & Dest of the porogoam will be executed normally of Onl- class Test Ps.v.m (String [] any) (Test t= new Test U; b. finalize(); Finalize(); Septem-gc(); So plo ("end of main");	and Calling Finalizer) Explicitly & while executing that finalized
The finalizer of while Executing that finalizer, if any of G.c calls finalizer of while Executing that finalizer, if any of the Executing that finalizer, if any of the Exception of State that the Two Simply ignores that of the characteristic the concentral of the program will be executed normally of the class Test of the program will be executed normally of the program of the program of the characteristic the program of the executed normally of the tent of the program of the executed normally of the tent of the program of the executed normally of the tent of the program of the executed normally of the tent of the program of the executed normally of the tent of the executed normally of the executed normally of the tent of the executed normally of the executed n	Exception soused & uncaught, Then The Pologoram will be
→ 3f G.c Calls finalize() { while Executing That finalize(), if any i) Suception prospect is uncaught Then Jum Simply ignories That in Canaught Exception & Dest of The poragonam will be executed normally of the class Test P.S. v.m (String [] any) (Test t= new Test U; b. finalize(); — Fline() E= [null; System-gcl); So. pln ("end of main");	ited abone mally.
Suception processed is uncaught Then Jum Simply ignores that in the consequence of the program will be executed normally of the class Test in the program will be executed normally of the program will be executed normally of ps.v.m (String [] any) Test t = new Test U; t. finalize(); — Fline of the program will be executed normally of the program will be executed normally of ps.v.m (String [] any) Test t = new Test U; System.gc(); So plin ("end of main");	
Uncaught Exception & Stest of The posigoam will be executed rainally of pol- class Test P.S. v.m (String [] any) Test t= new Test U; E. finalize(); — Fline() E= null; System.gc(); S.o.pln ("end of main");	
Uncaught Exception & Stest of The posigoam will be executed rainally of pol- class Test P.S. v.m (String [] any) Test t= new Test U; E. finalize(); — Fline() E= null; System.gc(); S.o.pln ("end of main");	on prossed is uncaught then Jum Simply ignories that
gol- class Test p.s.v.m (String [] any) test t = new Test U; t. finalize(); — Fline() t = null; System-gol); S.o.pln ("end of main");	at Call & good of the consens of the constitution of
P.S. v.m (String [] ang) Test t = new Test U; t. finalize(); — Fline() t = null; System-gcl); S.o.pln ("end of main");	
Test t = new Test U; b. finalize U; — Fline 0 t = null; System-gel); So-pln ("end of main");	
E. finalize(); — Fline() E=Dull; System-gc(); S.o.pln ("end of main");	•
E. finalize(); — Fline() E=Dull; System-gc(); S.o.pln ("end of main");	Test to Den Test O'
System-gcl); Soplin ("end of main");	/ Po 157 as a la
System.gcl); Soplin ("end of main");	
Sopla (rent of main");	0
S.o.pln (rent of main)	System-9cl);
9	Sophorene of main "
	y
http://javabynataraj.blogspot.com 229.of	http://javabynataraj.blogspot.com 229.of 401.

```
SHH
```

```
Public void finalizar
            2.0 Pln(" finalize method Called");
             @ .o.pln (1010);
   -> If we note not Comment LineO, then we age Calling the Hadized
     Explicitly and the paragram will be terminated abnormally
   - If we are Commenting LineO, then G.c calls finalize ( & the saised
     A.E is ignored by JVM. Hence in this Case the o/p is
      0/1/-
            end of main!
            finalize method Called.
   9 which of the following Statement is True?
) XI) While executing finalize() all exceptions are ignored by JVM.
   2) while
                                      unaught exaptions agricoled by Jum.
                                 only
)
                                        no Cought block
   Conclusion !
   - on any object G.c caus finalized only once.
Э
    -> The Behavious of G.C & vendos dependent & home we can't Expent
    Explicitly because of this use Can't answer]
```

```
Class FinalizeDemo
       Static finalize Demo S;
       P.S.V.m (String[] args) thomas Exception
       finalizeDemo f= nea finalizeDemoU;
        S.o. Pho(f.hashadec)).
        f=null;
        System.gc();
       Thoread · Sleep (5000)
       System out paints (e. hash Code ());
        S=poll;
       System.gcu;
       Thread. Sleep (5000);
        S.o.pln ("End of main method");
        Public void finalize()
         S. o pln (" Pinalize muthod Called");
         8 = this;
                                                                     <del>()</del>
       4072869
%-:
        Prolize method Gued
                                                                     4072869
          End of main method.
```

Expert exactly because of this we can't answer the following westions

O when Jum suns Gic exactly.

- @ what is the Algosofton following by g.c. 6
- 3 In which condea G.c destacys the Objects.
- (4) Wheather G.c destags all eligible objects or not etc

Note: We Carit tell Exact algosofthm followed by G.C., but most of the Cases of 95 mass & sweep Algosofthm.

Memory leak:

 \cdot

)

()

From Object having the Reference then it is not eligible form

G.c., eventhough we are not using that object in own program.

Still it is not destroyed by the G.c. Such type of object is called

memory leak". (I.e., memory Leak is a useless object which is nit

eligible for G.c.)

) - We can dissible memory Leaks by making useless objects for G.C. explicitly & by invokeing G.c perogenammatically.

JPROBE

TRM Tivoli

These are monitoring for memory lear.

HP I meter

(20) Assertions (1.4 version)

(1) Interoduction	
* (9) Assent as Key-world & identified	. ***
(3) Types of assert Statements)
(4) Various Runtime flags	والقادار
(5) Appenderate & Mappenderate Use of assextions)
6) Assertion Enoug.)
Assertions:	• •
→ Very Common way of debugging is using S-o.p Statements. But))
The paroblem with Sorps is after fixing the paroblem Compaisony	9
coe should delete these 8.0.ps otherwise these 8.0.ps executed at	∌ : ○
Sountime and effects performance & distaulter logging	, ·)
-> To Showle This poolen Sun people introduced Assertions Concept	9 •)
in 1.4 vossion. Hence the main Objective of assessions is to perform)))
-> The main Advantage of assertions over Sof is after frong the) ၁
1) a a b l a a a a a a a a a a a a a a a a	o
assertions will be desabled automatically at surtime. based on our	0
Shequiredment we can anable & désable assert Statements & Bydefault	
assestions are desabled.	0
-> Assertious Concept is applicable for developement & test environment	O U
But not for peroduction Environment. http://javabynataraj.blogspot.com 23:) 3 of 40

→ Assent Keywood Portoduced in 1.4 Version, Hence from 1.4 version onwards
we can't use assent as identified. But Before 1.4 we can use
assert as identified

```
en! class Test

p s v m (Stowng [] angs)

int assert =10;

S o pln (assert);
```

& D Javac Test · Java

 \Rightarrow

-:)

•

.)

)

•

)

C.E. as of shelease 1.04, 'assort' is a Keywoord, and may not be used as an identified

Use - Sousia1.3 or lower, to use 'assert' as an identifien.

Javac -Soverce 1.3 Test. Java Java Test 4

```
Types of Assest Stakments :-
 - There are 2 types of Assest Statement
       (1) Simple Version
       (2) Augmented vession
(1) Simple Version:
           assent (b); b - should be boolean-type
→ 2f b is true, Then over assemption satisfied & sheet of the program
  will be executed nonmally.
                                                                          • )
-) If b is false, then over assemption fails the perogenam will be
                                                                          \bigcirc
                                                                          ()
 terminated by enaising enortime Exception Saying assertion Exception So,
  That we can able to fix the poroblem.
                                                                          •
                                                                          0
    ex!
           Class Test
                                                                          \odot
                                                                          \bigcirc
             (2gno 1 Jenisot 2) m.v.2.9
                                                                          ો
               int x =10;
                                                                          \odot
                                                                          4
               assext (x >10);
                                                                          \odot
               8.0.Pln(x),
                                                                          \Theta
                                     Javac Test. java
                                      Javae Test V
                                                                          ()
                                     Java -ea Test +1
                                          R-Entre: Marabonata 1.010 2 spot.com
```

http://javabynataraj.blogspot.com

```
(2) Augmented Version:
  -> we can -Augment Some discouption by Using augmented Version to
     The Assertion Essass.
                  assert(b):d;
                                   any description, Can be any type but Diecomment
       Should be bookantype
                                                               to use Storing type.
     ex!-
              Class Test
              P. S. v.m (Staing [] args)
                 int x=10;
7
                 assert (x>10): "Here & value should be >10 but it is not";
                S.o.pln(x);
    1 Javac Test. Java L
    1 Java Test
)
        10
   3 Java -ea Test +
         R.E! Desertion Englan: Here & value should be >10 but it is not.
   Conclusion(1):
                     assent (e): e2;
   → er will be evaluated iff e1 is false. i.e if e1 is True, Then e2 won't
```

(_.

·.)

-)

()

0

be evaluated.

```
en! - Class Test
             P. S. V. no (Stacing [] angs)
             int ==10;
             assest (x ==10): + +x;
                                           assest (x>10): ++x;
            $. 0.p.to(x);
  ✓ Javac Test. Java ←
                                            Javac Test. java
  Java Test /
                                            Java Test
  √ Java -ea Test ←
                                             Java -ea Test
                                              R.E. Assortim Espenosis 11
                                                                                \mathbf{C}
 Conclusion (2)1.
                      assort (e1): ez;
- As er we can take a method call also but void type method calls
                                                                                •
  agre not allowed.
                                                                                )
  Class Test
                                                                                .
            P.S.V.M (Strong C) args)
                                                  Javac Test. java 4
              int x=10;
                                                 - Java Test €
                                                                                -)
              assext (x>10): m1();
                                                   10
                                                  Java -ea Test
                                                                                )
              S.o.pln(x);
                                                    R.E! Assertion Garoni 8888
             public static ont mill)
                                                                                9
               Deturn 8888;
                                                 http://javabynataraj.blogspot.com
```

```
A) Vastious Runtime flags:

①-ea: To anable assestions in Every non-System class
③-enableassestions: It is Exactly Some as -ea

③-da: To disable assestions in Every non-System class
⑥-disableassestions: Same as -da

⑥-esa! To enable assestions in every System class
⑥-enable Systemassestions: It is exactly same as -esa.

⑥-esa! To disable assestions in every System class.
⑥-enable Systemassestions: It is exactly same as -esa.

⑦-dsa: To disable assestions in Every System class.
⑥-dsa: To disable assestions in Every System class.
⑥-dsablesystemassestions: It is Same as -dsa.
```

Java -ea -esa -da -dea -esa -ea -dea

Non System crass

System crass

> we can use these flags in together & all these flags Executed from

Left to right.

(Ex(2) :-

•

- O Java -ea: packi.A
- () (3) Java -ea: packi. B -ea: packi. packi. D
- 3 java -ea -da:packiB

Ex 21- Placks	
B. Closs	
packs	• •
c. class	i
-> To anable assertions only A class	à
O java -ea:packi.A	
) 9
→ To anable assertions in Both B & D Classes	
Java -ea: pack 1. B -ea: pack 1. pack 2.D)
•	()
→ To anable assertions in every non-system class expept B	
Java -ea -da: pack1.B	
•))
To anable assertions in every class of packing it's Sub packages	•) •)
Java -ea:packi	→ :
	\mathbf{O}
-> To anable assesting in every where with in pack (Except packs.	\odot
	•
Java -ea:packida:packi, packe	9
	9
5) Apporoposiate & Inapporoposiate use of assestions:-	()
	•
1) It is always Brapporopoulak to onix pologonaming logic with assent	
Statement because there is no gamtee of execution of assert Statem	enf enf
at suntine.	o
Ex:- Withdown (int x) withdown (int x)	6
7	O
$(f(x<100)) \qquad asserb(x>=100);$	O
the result of	0
throw new IAG ();	O
proposition 23 Bings The Bynaster aj. blogspot.com 23	9 ₆ of 401.

```
2) In own perogram if there is any place where the Control not allowed to seach then it is the best place to use assert statement.
```

```
Case: S.o.pln ("JAN");

boreak;

Case 2: S.o.pln ("feb");

boreak;

(ase12: S.o.pln("Dec");

boreak;

default;

assert (fake);

R.E. A.E. Can be displayed.
```

3) It is always Enappropriate to use assertions for validating public muttod:

appropriate to use assertions for validating public muttod:

9) 8t 9s always Appenopoliale to use assertions for validating positate method assignments

) 5) Et is always Thappoopiale to use assessions from validating Command-Line) assignements because these are assignements to public main().

6)Alscertion Eggoon:

0

J → Zt is the child class of Enonon & Hence it is unchecked.

) > 7t is logar to Catch Assertion Essoron by Using tay-catch but it is) Stupid Kind of althrity

> Ep!- Class Teste { p.s.v.m (Staing[]args)

```
class Test
         EN)-
                   p·s·v m(Staing[] angs)
                     Pot x =10;
                     try
                      assent (x>10);
                      Catch (Assertion Eason e)
                        S.o. pln ("2 am Stupid - b'z I am Catching
                                                         -Assertion Esposa),
                       S.0.Pln(x);
Note!
-> 21 96 possible to enable assestions either class wise or packagewise
```