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Submitted to: Miss Amna / Miss Faiza

Language Specifications

Language Name: Initio

Language Paradigm: Object Oriented

Case Sensitive: Yes

Keywords

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No. | Name | Name (C#) | Class | Structure |
| Data Types | | | | |
| 1- | inum | int | DT | inum n =10 : |
| 2- | fnum | float | DT | fnum n =10.0 : |
| 3- | sdata | string | DT | sdata s = “Hello”: |
| 4- | cdata | char | DT | cdata c = ‘a’: |
| 5- | bool | bool | Boolean | bool ans = true: |
| Conditions | | | | |
| 6- | suppose | if | If | suppose[condition]{…} |
| 7- | further | else | Else | further{…} |
| 8- | further suppose | else if | If/else | further suppose[cond.]{…} |
| Loops | | | | |
| 9- | make | for | For | make[a=0 , a<5 , inc a]{…} |
| 10- | until | while | While | until[condition]{…} |
| Comments | | | | |
| 12- | Single line | - | Single | @ …. |
| 13- | Multi line | - | Multi | @- ….. -@ |
| Access Modifiers | | | | |
| 14- | limited | protected | AM |  |
| 15- | global | public | AM |  |
| 16- | personal | private | AM |  |
|  | | | | |
| 17- | mread | Console.ReadLine | Input | mread[]: |
| 18- | mwrite | Console.WriteLine | Output | mwrite[“This is a programming language”]: |
| 19- | end | break | Break | end: |
| 20- | resume | continue | Continue | resume: |
| 21- | : | ; | Terminator | : |
| 22- | mclass | class | mClass | mclass{  void avg[]{  } } |
| 23- | when | case | Switch | when 2; end: |
| 24- | choose | switch | Switch | choose[condition]{  when 2; end: } |
| 25- | finale | final | Final | finale inum n = 2: |
| 26- | inc | ++ (Increment) | IncDec | inc a: |
| 27- | dec | -- (Decrement) | IncDec | dec a: |
| 28- | default | default | Default | default; inc a: end: |
| 29- | replay | return | Return | return: |
| 30- | enlarge | extends | Extends | mclass A enlarge B {…} |
| 31- | stable | static | Static | stable void func[]{…} |
| 32- | add | new | New | A a = add A[]: |
| 33- | void | void | Void | void func[]{…} |
| 34- | body | main | mMain | global void body[]{…} |
| 35- | ! | ! | Not | a! |
| 36- | + | + | AddSub | c = a + b: |
| 37- | - | - | AddSub | c = a – b: |
| 38- | \* | \* | Multiply | c = a \* b: |
| 39- | / | / | DivMod | c = a / b: |
| 40- | % | % | DivMod | c = a % b: |
| 41- | < | < | RO | suppose(a < b) |
| 42- | > | > | RO | suppose(a > b) |
| 43- | == | == | RO | suppose(a == b) |
| 44- | <= | <= | RO | suppose(a <= b) |
| 45- | >= | >= | RO | suppose(a >= b) |
| 46- | != | != | RO | suppose(a != b) |
| 47- | && | && | AND | suppose(a != b && c == b) |
| 48- | || | || | OR | suppose(a != b || c == b) |
| 49- | = | = | EQUAL | a=b: |
| 50- | += | += | AOP | a+=b: |
| 51- | -= | -= | AOP | a-=b: |
| 52- | \*= | \*= | AOP | a\*=b: |
| 53- | /= | /= | AOP | a/=b: |
| 54- | arr() | arr[] | Array | inum n(3) =(2,4,5): |