Fernandez, Ryan Austin CSC617M

Poblete, Clarisse Felicia M.

San Pedro, Marc Dominic

Tan, Johansson E.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **C++** | **C#** | **Python** | **Javascript** | **Scala** | **Maestro** |
| **Data** | Data Types | char bool  int  wchar\_t  float  double | char  bool  int  String  float  double | int  float  long  complex  boolean  string  dictionary | Number  Boolean  String  Array  Function  Regex  Object | Byte/Short/Int  /Long  Float/Double  Char  String  Boolean  Unit  Any/Nothing/AnyRef |  |
|  | Values | ‘C’  false  9430  L"A”  31415.9265  0.123456789 | ‘c’  true  24601  “Hello World”  3.14159265  5 | 1  1.0  1L  1j | complex(0, 1)  True | False  “Hello” | ‘Hello’  dictionary = {‘Key1’: ‘Value1’, ‘Key2’: ‘Value2} | 12 | 014 | 0x0C | 12.0 | 1.2e1  true | false  “Hello”  [1,2,3,4]  <see below>  /^[abc]{5}$/  {  name : “My Name”,  age : 12  } | 12 | 014 | 0x0C | 12L  12.0 | 1.2e1  ‘s’ | ‘\n’  “Hello” | “””Multi  Line”””  true | false  - |  |
|  | Constants and Variables | Implicit  Static | Implicit  Static | Implicit  Static | Implicit  Dynamic | Explicit/Implicit  Static |  |
| **Process** | Branching | if...else  switch | if...else  switch | if...else | if...else  switch | if...else  pattern matching |  |
|  | Iteration | for  while  do...while | for  while  do...while  foreach | for  while | while  do...while  for  for...in | for  while  do...while |  |
| **Subprograms** |  | <return type> <function name> (type var1, type var2, …) {  <body>  } | <return type> <function name> (type var1, type var2, …) {  <body>  } | def <function name>(param1, param2...):  <body> | function <function name> (var1, [var2,...]) {  <body>  } | def <function name>(param1: param1 type, [param2 : param2 type,...]) : <return type> = {  <body>  } |  |