

Distance package

Centroid module

Object with centroid

- co-ord : tuple

+ Show-coord() : tuple

centroid (obj1,
- distance (obj2)
: int

Vector module

+ euclidean-dist (vect1, vect2) : int

+ manhattan-dist (vect1, vect2) : int

math
package

Complex module

+ abs-difference (comp1,
comp2) : int

Number module

+ abs-diff (num1, num2) : int

String module

+ levenshtein-dist (str1, str2) : int

Main
module

Date Package

Convert module

```
+ hrs-days (hrs: int) : int
+ days-hrs (days: int) : int
+ min-hrs-days (hrs: int) : int
+ days-years (days: int) : int
```

Validity module

```
+ IsValid (Time) : bool
+ Is valid (date) : bool
```

Current module

```
+ current-time () : str
+ current-date () : str
```

Difference module

```
+ difference-with-convert (date: str) : int
+ difference (date1: str, date2: str) : int
+ days-after (days: int) : str
+ days-before (days: int) : str
+ month-after (month: int) : str
+ months-before (month: int) : str
```

Date module

Date

```
- year : int
- month : int
- date : int

+ __str__ () : str
+ Showdate () : str
```

```
date-dj : date
converted
```

Datetime package

Main module

---> dependent on

→ module

→ package

→ class

→ function/module

→ package containing modules