



# Build Perl6 Distribution

---

Mohammad S Anwar

@cpan\_author

# INSTALLATION OF PERL6

---

\$ wget <https://rakudo.perl6.org/downloads/star/rakudo-star-2018.10.tar.gz>

\$ tar xzf rakudo-star-2018.10.tar.gz

\$ cd rakudo-star-2018.10

\$ perl Configure.pl --gen-moar --make-install --prefix ~/rakudo



# CONFIGURE PATH

---

```
export
```

```
PATH=~/.rakudo/bin:~/.rakudo/  
share/perl6/site/bin:$PATH
```



# DISTRIBUTION BUILDER

---

```
$ zef install App::Mi6
```



# CALCULATOR

---

\$ mi6 new Calculator

Successfully created Calculator

# DISTRIBUTION SKELETON

\$ tree Calculator/

Calculator/

---

```
|— bin
|— Changes
|— dist.ini
|— lib
|   └─ Calculator.pm6
|— LICENSE
|— META6.json
|— README.md
└─ t
    └─ 01-basic.t
```

3 directories, 7 files



# DEFINE CLASS

(lib/Calculator.pm6)

---

```
use v6.c;
```

```
class Calculator:ver<0.0.1> {  
    has Int $.x is required;  
    has Int $.y is required;
```

```
    # add methods here
```

```
}
```



# ADD OPERATION

---

```
method add() {  
    return self.x + self.y;  
}
```





# SUBSTRACT OPERATION

---

```
method subtract() {  
    return self.x - self.y;  
}
```



# MULTIPLY OPERATION

---

```
method multiply() {  
    return self.x * self.y;  
}
```

# DIVIDE OPERATION

---

```
method divide() {  
    return self.x / self.y;  
}
```





# SETUP UNIT TEST

(t/01-basic.t)

---

```
use v6.c;  
use Test;  
use Calculator;  
  
my $c = Calculator.new( :x<10>, :y<5> );  
  
is $c.add(), 15, '10+5';  
is $c.subtract(), 5, '10-5';  
is $c.multiply(), 50, '10*5';  
is $c.divide(), 2, '10/5';  
  
done-testing;
```



# LET'S TEST THE MODULE

---

\$ mi6 test

# DATA VALIDATION ?

---

has Int \$.x is required;

has Int \$.y is required;


becomes

has Int \$.x is required where \* > 0;

has Int \$.y is required where \* > 0;

# WANT MORE ?

---



```
method TWEAK(:$!x!, :$!y!) {  
  die 'ERROR: x should be > y.'  
  unless $!x > $!y;  
};
```





# BUILD FINALLY

---

\$ mi6 test

\$ mi6 build



# CREDIT GOES TO

---

Scimon Proctor

J J Merelo

Perl Weekly Challenge