

SWE2034 – Ruby Programming Lab 1

Suryakumar P 21MIS1146

Variables and Methods:

- `a.class` – Prints the Datatype (Class)
- `a.kindof?(Integer)` – returns bool value
- `puts a.to_s` – convert to string
- `puts (a.even?)` – returns if it is even or not (bool)
- `puts(a.odd?)` – returns if it is odd or not (bool)
- `a.ceil` – returns ceil value of a
- `a.floor` – returns floor value of a
- `a.round` – rounds value of a
- `a.next` – next number to a
- `a.pred` – predecessor of a
- `a.gcd(b)` – gcd of a and b
- `a.lcm(b)` – lcm of a and b
- `a.pow(b)` – a to the power of b
- `a.modulo(b)` – a modulo b
- `a.bit_length` – bit length of a
- `a.non_zero?` – returns if a is non-zero or not (bool)
- `a.abs` – returns absolute value of a
- `a.rationalize` – rationalizes the value of an and prints it in the format of p/q
- `a.gcdlcm(b)` – returns an array of [gcd,lcm] of a,b
- `a.size` – prints the byte size of a

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\21MIS1146\Week1> irb
irb(main):001> 5.times{print "Suryakumar "}
Suryakumar Suryakumar Suryakumar Suryakumar Suryakumar => 5
irb(main):002> a = 10
=> 10
irb(main):003> a.class
=> Integer
irb(main):004> a.kind_of?
(irb):4:in `kind_of?': wrong number of arguments (given 0, expected 1) (ArgumentError)
    from (irb):4:in `'
    from <internal:kernel>:187:in `loop'
    from C:/Ruby33-x64/lib/ruby/gems/3.3.0/gems/irb-1.13.1/exe/irb:9:in `'
    from C:/Ruby33-x64/bin/irb:33:in `load'
    from C:/Ruby33-x64/bin/irb:33:in `'
irb(main):005> a.kind_of?(Integer)
=> true
irb(main):006> puts a.to_s
10
=> nil

irb(main):010> num = 22
=> 22
irb(main):011> puts(print "22 in base 10 = #{num.to_s(2)}")
irb(main):012>
22 in base 10 = 10110
=> nil
irb(main):013> puts(print "22 in base 2 = #{num.to_s(2)}")
irb(main):014>
22 in base 2 = 10110
=> nil
irb(main):015> puts("22 in base 8 = #{num.to_s(8)}")
irb(main):016>
22 in base 8 = 26
=> nil
irb(main):017> puts(a.even?)
true
=> nil
irb(main):018> puts(num.odd?)
false
=> nil
```

```
irb(main):023> 8.3.ceil
=> 9
irb(main):024> 8.3.floor
=> 8
irb(main):025> 15.next
=> 16
irb(main):026> 15.pred
=> 14
irb(main):027> 15.gcd(5)
=> 5
irb(main):028> 15.7.round
=> 16
irb(main):029> 5.lcm(10)
=> 10
irb(main):030> 20.pow(2)
=> 400

irb(main):032> 18.modulo(3)
=> 0
irb(main):033> 15.bit_length
=> 4
irb(main):034> 18.nonzero?
=> 18
irb(main):035> -21.abs
=> 21
irb(main):036> 15.5.rationalize
=> (31/2)
irb(main):037> 17.gcdlcm
(irb):37:in `gcdlcm': wrong number of arguments (given 0, expected 1) (ArgumentError)
    from (irb):37:in `'
    from <internal:kernel>:187:in `loop'
    from C:/Ruby33-x64/lib/ruby/gems/3.3.0/gems/irb-1.13.1/exe/irb:9:in `'
    from C:/Ruby33-x64/bin/irb:33:in `load'
    from C:/Ruby33-x64/bin/irb:33:in `'
irb(main):038> 17.gcdlcm(2)
=> [1, 34]
irb(main):039> 18.size
=> 4
irb(main):040> 
```