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LAB – 1

Variables and Methods

1) Print Hello World

```
C:\Users\student>irb
irb(main):001> 5.times{print "Hello World"}
Hello WorldHello WorldHello WorldHello WorldHello World=> 5
irb(main):002>
```

```
irb(main):002> 5.times{print "Hello World\n"}
Hello World
Hello World
Hello World
Hello World
Hello World
=> 5
irb(main):003>
```

2) Simple Functions

```
irb(main):003> a=10
=> 10
irb(main):004> a.class
=> Integer
irb(main):005> a.kind_of? (Integer)
=> true
irb(main):006> puts a.to_s
10
=> nil
irb(main):007> puts a.to_s;
10
irb(main):008>
```

3) Number Conversions in (Binary, Octal and Hexadecimal)

```
irb(main):011> num=25
=> 25
irb(main):012> puts("25 in base 10 = #{num.to_s(2)} in binary");
25 in base 10 = 11001 in binary
irb(main):013> puts("25 in base 10 = #{num.to_s(8)} in octal");
25 in base 10 = 31 in octal
irb(main):014> puts("25 in base 10 = #{num.to_s(16)} in Hexadecimal");
25 in base 10 = 19 in Hexadecimal
irb(main):015>
```

4) Check whether the number is Odd or Even

```
irb(main):017> puts (a.odd?)
false
=> nil
irb(main):018> puts (a.even?)
true
=> nil
irb(main):019>
```

5) Calling a String

```
irb(main):019> txt="Vishwa"
=> "Vishwa"
irb(main):020> puts ("My name is #{txt}");
My name is Vishwa
irb(main):021>
```

6) Find remainder

```
irb(main):021> a.remainder(5)
=> 0
```

7) Find Modulus

```
irb(main):022> a.divmod(7)
=> [1, 3]
```

8) Rounding off to 2 decimal digits

```
irb(main):023> b=27.869
=> 27.869
irb(main):024> b.round(2)
=> 27.87
irb(main):025>
```

9) Rounding off

```
irb(main):025> b.round()
=> 28
```