In [1]:
```
#Name:- Kuldeep Ghorpade
#DIV:- B
#Roll No. :- 09
#Experiment No. :-01
```

In [4]:
```
name = "kuldeep"
number = 25
pie_value = 3.142
```

Out[4]: 3.142

In [6]:
```
print(name)
```

```
kuldeep
```

In [7]:
```
#Mathematical Operations
```

In [8]:
```
a = 2
b = 3
sum = a + b
print("addition is ",sum)
```

```
addition is 5
```

In [9]:
```
difference = a - b
println("The Difference = ", difference)
```

```
The Difference = -1
```

In [10]:
```
product = a * b
println("The Product = " ,product)
```

```
The Product = 6
```

In [12]:
```
quotient = b / a
print("the quotient = ",quotient)
```

```
the quotient = 1.5
```

In [13]:
```
power = a^3
print("The Power = ", power)
```

```
The Power = 8
```

In [14]:
```
modulus = b % a
```

Out[14]: 1

In [15]:
```
#Data Type
```

In [16]:
```
typeof(0.2)
```

Out[16]: Float64

In [17]:
```
typeof(50)
```

Out[17]:
```
Int64
```

In [18]:
```
typeof("Amey")
```

Out[18]:
```
String
```

In [19]:
```
#Data structures
```

In [20]:
```
#Vectors
```

In [22]:
```
a = [1,2,3,4,5,6,7]
b = [1.2, 3,4,5,6]
c = ["kuldeep", "Ghorpade", "xyz"]
println(a)
println(b)
println(c)
```

```
[1, 2, 3, 4, 5, 6, 7]
[1.2, 3.0, 4.0, 5.0, 6.0]
["kuldeep", "Ghorpade", "xyz"]
```

In [23]:
```
#Matrices
```

In [24]:
```
Matri_1 = [4 5 7; 8 1 3]
```

Out[24]:
```
2×3 Matrix{Int64}:
 4  5  7
 8  1  3
```

In [25]:
```
Matri_2 = [4 5 7; 8 1 3]
```

Out[25]:
```
2×3 Matrix{Int64}:
 4  5  7
 8  1  3
```

In [26]:
```
Matri_1 + Matri_2
```

Out[26]:
```
2×3 Matrix{Int64}:
  8  10  14
 16   2   6
```

In [27]:
```
#Tuples
```

In [28]:
```
a = (1,2,3,4,5)
b = 1, 2, 3, 4, 5
println(a)
```

```
(1, 2, 3, 4, 5)
```

In [29]:
```
#Named Tuples
```

In [30]:
```
named_tuple = (a = 1, b = "hello")
named_tuple[:b]
```

Out[30]:
```
"hello"
```

In [32]:
```
#Dictionaries
```

In [33]:
```
Person_1 = Dict("Name" => "kuldeep", "Phone" => 7019399829, "Pant-size" => 40)
print(Person_1["Name"])
```

```
kuldeep
```

In [34]:
```
#String
```

In [35]:
```
firstname = "kuldeep"
println("My Name is $firstname")
```

```
My Name is kuldeep
```

In [38]:
```
lastname=" Ghorpade"
string(firstname,lastname)#concatenation
```

Out[38]:
```
"kuldeep Ghorpade"
```

In [39]:
```
str = """
This is,
Julia Programming Language.
""" #Multiline String
```

Out[39]:
```
"This is,\nJulia Programming Language.\n"
```

In [40]:
```
print(str)
```

```
This is,
Julia Programming Language.
```

In [ ]:
```

```