In [1]:
```
#Name:- Kuldeep Ghorpade
#DIV:- B
#Roll No. :- 09
#Experiment No. :-02
```

In [2]:
```
a=100
a<20 ? "Right" : "Wrong"
```

Out[2]: "Wrong"

In [3]:
```
a>20 ? "Right" : "Wrong"
```

Out[3]: "Right"

In [4]:
```
#If, elseif and else
```

In [5]:
```
fruit = "Apple"
```

Out[5]: "Apple"

In [6]:
```
if fruit == "Apple"
println("I like Apple")
end
```

```
I like Apple
```

In [7]:
```
if fruit == "Apple"
println("I like Apple")
else
println("I like other fruit")
end
```

```
I like Apple
```

In [8]:
```
if fruit == "Apple"
println("I like Apple")
elseif fruit == "Banana"
println("I like Banana.")
println("But I prefer Apple.")
else
println("I don't know what I like")
end
```

```
I like Apple
```

In [9]:
```
#Loops
#For LOOP
```

In [10]:
```
for i in 1:2:10
println(i)
end
```

```
1
3
5
7
9
```

In [11]:
```
for i = 0:2:10
println(i)
end
```

```
0
2
4
6
8
10
```

In [12]:
```
#Variables declared inside a loop
```

In [13]:
```
for x in 1:10
y = x^2
println("$(x) squared is $(y)")
end
```

```
1 squared is 1
2 squared is 4
3 squared is 9
4 squared is 16
5 squared is 25
6 squared is 36
7 squared is 49
8 squared is 64
9 squared is 81
10 squared is 100
```

In [14]:
```
#while Loop
```

In [15]:
```
i=1
while i<=10
println(i)
i=i+1
end
```

```
1
2
3
4
5
6
7
8
9
10
```

In [16]:
```
#ContinueStatement
```

In [18]:
```
for x in 1:10
if x % 4 == 0
continue
        end
println(x)
end
```

```
1
2
3
5
6
7
9
10
```

In [19]:
```
for x in 1:10
if x % 4 == 0
break
end
println(x)
end
```

```
1
2
3
```

In [20]:
```
#Functions
#Defining functions
```

In [21]:
```
function addition(x,y)

#perform addition operation
return x + y
end
```

Out[21]:
```
addition (generic function with 1 method)
```

In [22]:
```
addition(10,20)
print("The Addition = ", addition)
```

```
The Addition = addition
```

In [23]:
```
addition(x,y)=x+y
print("The Addition = ", addition)
```

```
The Addition = addition
```

In [24]:
```
addition(12,24)
print("The Addition = ", addition)
```

```
The Addition = addition
```

In [25]:
```
map(A -> A^2, [4,-3,8])
```

Out[25]:
```
3-element Vector{Int64}:
 16
  9
 64
```

In [26]:
```
function say_hello()
println("Hello")
return
end
```

Out[26]:
```
say_hello (generic function with 1 method)
```

In [27]:
```
say_hello()
```

```
Hello
```

In [28]:
```
#Optional Positional Arguments
```

In [29]:
```
function Weight_calc(weight_Earth, g=9.81)
return weight_Earth*g/9.81
end
```

Out[29]:
```
Weight_calc (generic function with 2 methods)
```

In [30]:
```
Weight_calc(80)
```

Out[30]:
```
80.0
```

In [31]:
```
Weight_calc(60,3.71)
```

Out[31]:
```
22.691131498470945
```

In [ ]: