

EXPT.
NO. 6.

NAME

PROGRAM ON CONDITIONAL OPERATOR

6) Aim: To perform operations using conditional operator - if else.

6.1) Program on String multiplication:

puts "String multiplication using conditional Statement"

puts "Enter your name"

a=gets.chomp

puts "Enter the number of times"

b= gets.chomp.to_i

if (b>0)

 print a*b

else

 puts "Unable to print"

end

6.2) Program on Boiling point conversion

2. Write a Ruby script which accept the radius of a circle from the user and compute the parameter and area.

Code:

```
puts "enter radius"  
r=gets.chomp.to_f  
pi=3.14  
area=pi * r * r  
peremeter= 2 * pi * r  
puts "area=#{area} and peremeter=#{peremeter}"
```

Output:

```
D:\sss>ruby labprogram2.rb  
enter radius  
4  
area=50.24 and peremeter=25.12
```

```
D:\sss>
```

Program 23.2:

puts "Enter your first name"
fname = gets.chomp

puts "Enter the last name"

lname = gets.chomp

rf = fname.reverse

lf = lname.reverse

puts "#{rf} #{lf}"

Program 24-2 :

puts "Enter your filename"

filename = gets.chomp

ename = File::extname(filename)

print ename.

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4.3) Program :

puts "Greatest of three numbers"
puts "Enter three numbers"
a = gets.chomp.to_i
b = gets.chomp.to_i
c = gets.chomp.to_i
d = (a>b)?((a>c)?a:c):(b>c)?b:c
puts "Maximum of three numbers is ", d

7.2) Program on printing odd numbers reverse

puts "print n numbers"

puts "Enter the number" to find its sum of
n = gets.chomp.to_i

puts "The numbers are --"

i=10
while (i>=0)
 puts i
 i=i+1
end
end

while x>0

 if x%2!=0

 puts "#{x}"

 end

 x=x-1

Ends

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20.11) Program: to return true if any one number is 20. and to return sum if false.

```
def check(a,b)
    if (a==20 || b==20)
        return true
    else
        return a+b
end
```

puts "Enter two numbers"

```
a=gets.chomp.to_i
b=gets.chomp.to_i
res=check(a,b)
puts res.
```

20.12) Program to return true if one number is less

Code:

```
def check(p,q)
    if((p<0 && q>100) or (p>100 && q<0))
        return true
    else
        return false
    end

    puts "enter no1"
    a=gets.chomp.to_i
    puts "enter no2"
    b=gets.chomp.to_i
    puts check(a,b)
```

Output:

```
D:\sss>ruby labprogram8.rb
enter no1
55
enter no2
55
false
```

22)

Programming on Array

```
arr1 = [ 2, 6, "Mgit", "ECE", "66" ]
```

```
puts arr1
```

```
puts arr1[-3]
```

```
puts arr1[2]
```

```
arr1.push [70]
```

```
puts "In Push", arr1
```

```
arr1.pop()
```

```
puts "In Pop", arr1
```

```
s=arr1.size
```

```
puts "In Size", s
```

```
arr1.delete(6)
```

```
puts "In Delete", arr1
```

Q
Program

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25.

PROGRAMMING ON HASH

M T W T F S S

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YOUVA

Aim: To perform programming on hash

Program :

```
h = { "java" => 88 , 'SL' => 77 , 'C' => 66 , 'Python' => 55 }  
puts "Marks: #{h}"
```

tmarks = 0

h.each do |key, value|

 tmarks += value

end

puts "Total marks = #{tmarks}"

20.10) Program:

```
def calculate_GCD(a,b)
    while (a != b)
        if (a > b)
            return calculate_GCD(a-b, b)
        else
            return calculate_GCD(a, b-a)
        end
    end
    return a
end

print "Enter 2 numbers :"
a = gets.chomp.to_i
b = gets.chomp.to_i
result = calculate_GCD(a,b)
puts "GCD is : ", result
```

✓
GCD

Teacher's Signature: