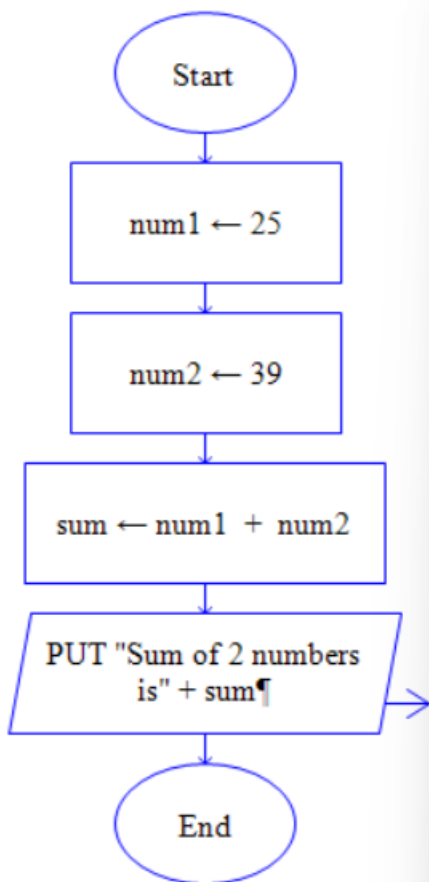


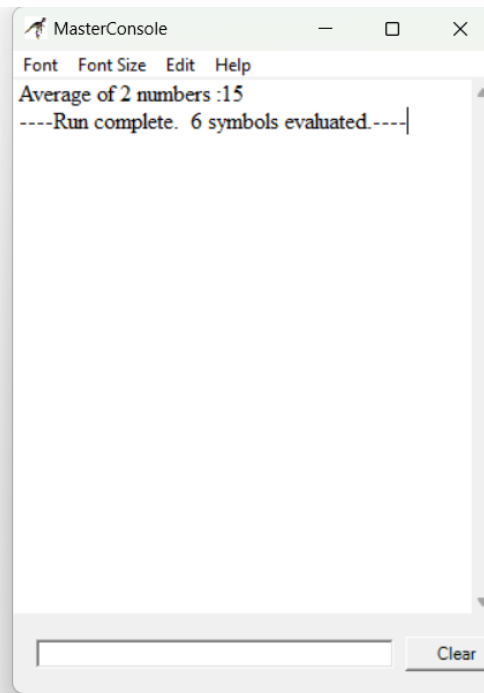
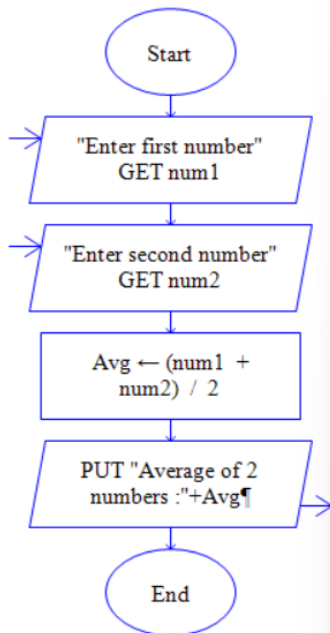
## ASSIGNMENT 01 Solution

1. To add two given numbers and print the sum.

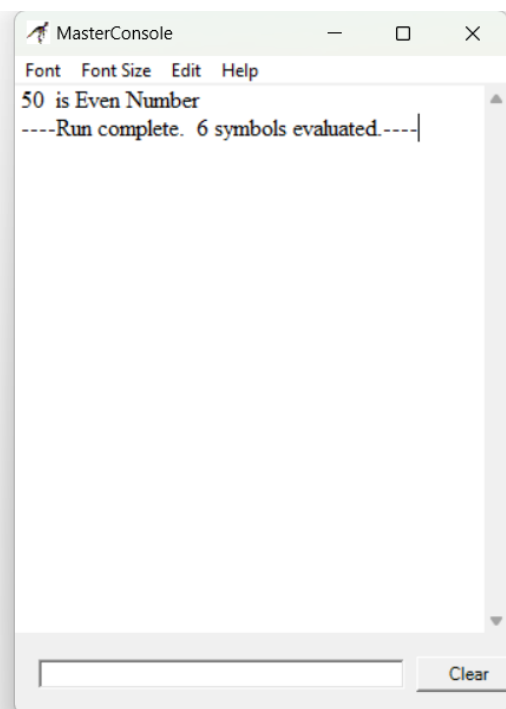
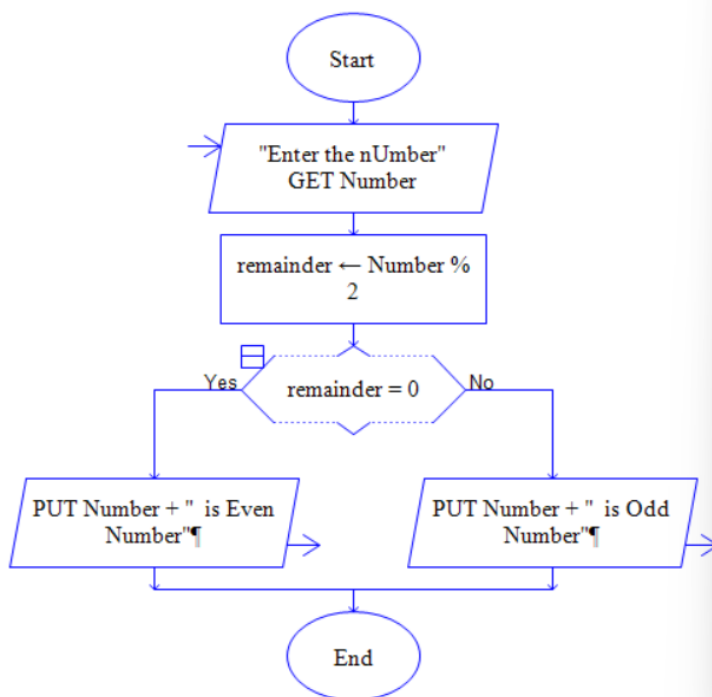


The screenshot shows a window titled 'MasterConsole' with a menu bar containing 'Font', 'Font Size', 'Edit', and 'Help'. The main text area displays the output of the program: 'Sum of 2 numbers is64' followed by a new line and '----Run complete. 6 symbols evaluated.----'. At the bottom of the window, there is a text input field and a 'Clear' button.

2. To find the average of the two given numbers and print.



### 3. To decide whether a given number is even or odd.



### 4. To find the factorial of a given number.

```

class Factorial
{
    public static void main(String[] args)
    {
        int n = 5;
    }
}
  
```

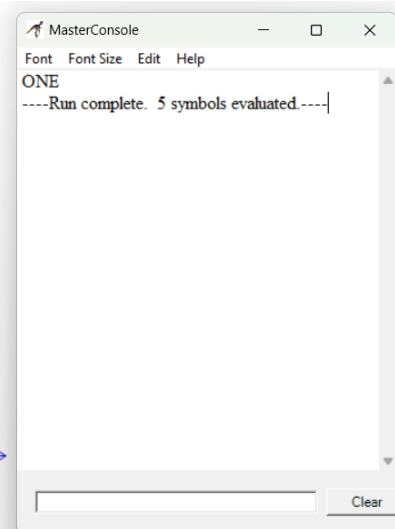
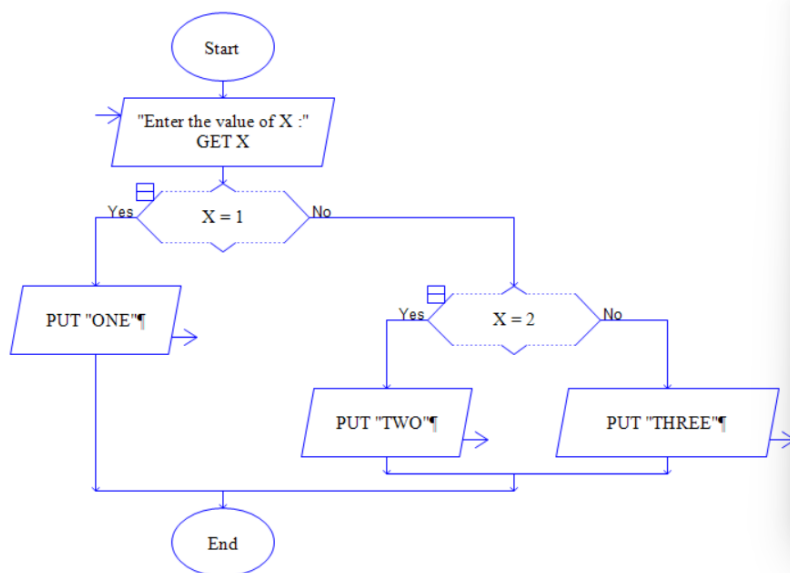
```

int fact = 1;

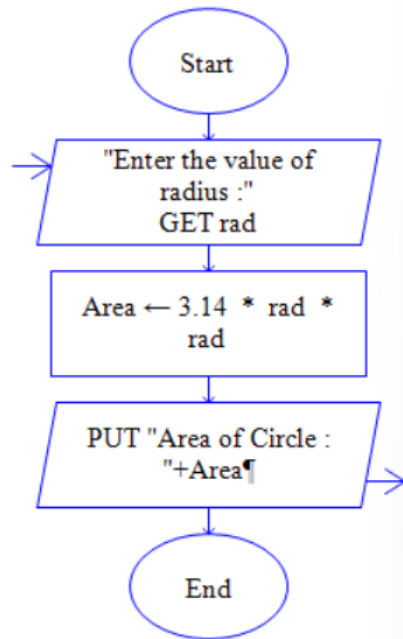
for(int i=1;i<=n;i++)
{
    fact = fact * i;
}
System.out.println("Factorial of number "+n+" = "+fact);
}
}

```

5. Write a series of RAPTOR statements that determines if X has the value 1, 2, or 3, and prints out “ONE”, “TWO”, or “THREE” accordingly.

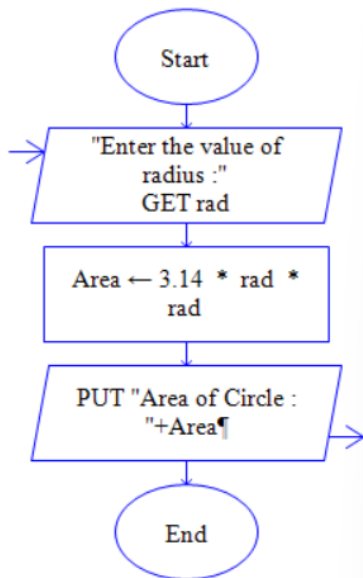


6. Create a flowchart which asks the user for the area of a circle, computes the area, then displays the area.



```

MasterConsole
Font Font Size Edit Help
Area of Circle : 314
----Run complete. 5 symbols evaluated.----
Clear
  
```

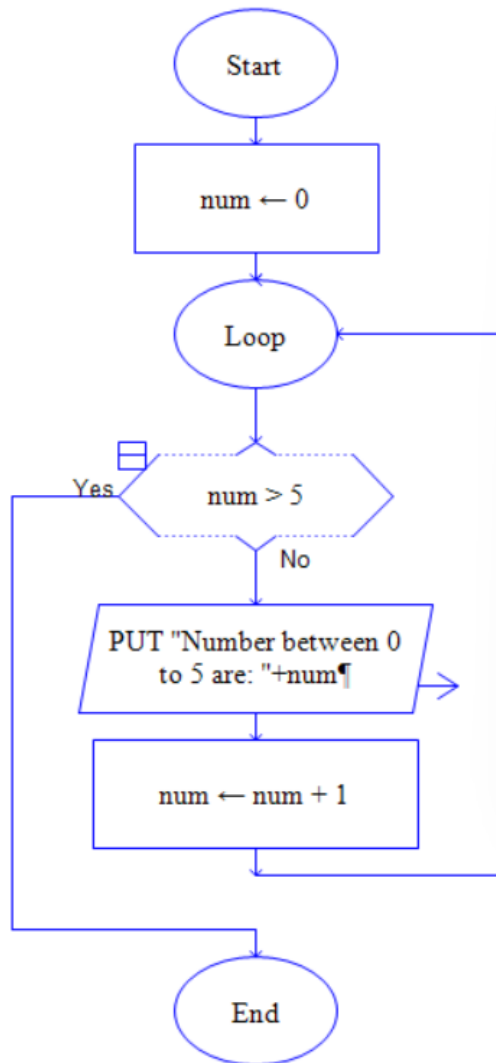


```

MasterConsole
Font Font Size Edit Help
Area of Circle : 12.5600
----Run complete. 5 symbols evaluated.----
----Reset----
Area of Circle : 3.1400
----Run complete. 5 symbols evaluated.----
Area of Circle : 12.5600
----Run complete. 5 symbols evaluated.----
Clear
  
```

7. Create a flowchart which uses a loop to display the following:

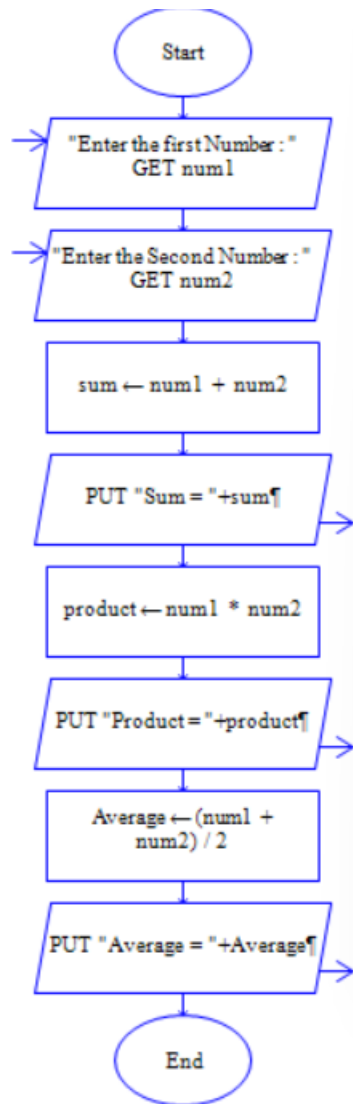
- 0
- 1
- 2
- 3
- 4
- 5



```
MasterConsole
Font  Font Size  Edit  Help
Number between 0 to 5 are: 0
Number between 0 to 5 are: 1
Number between 0 to 5 are: 2
Number between 0 to 5 are: 3
Number between 0 to 5 are: 4
Number between 0 to 5 are: 5
----Run complete. 29 symbols evaluated.----
```

The image shows a screenshot of a 'MasterConsole' window. The output text matches the execution of the flowchart, displaying the numbers 0 through 5 on separate lines. At the bottom, there is a 'Clear' button and a status line indicating 'Run complete. 29 symbols evaluated.'.

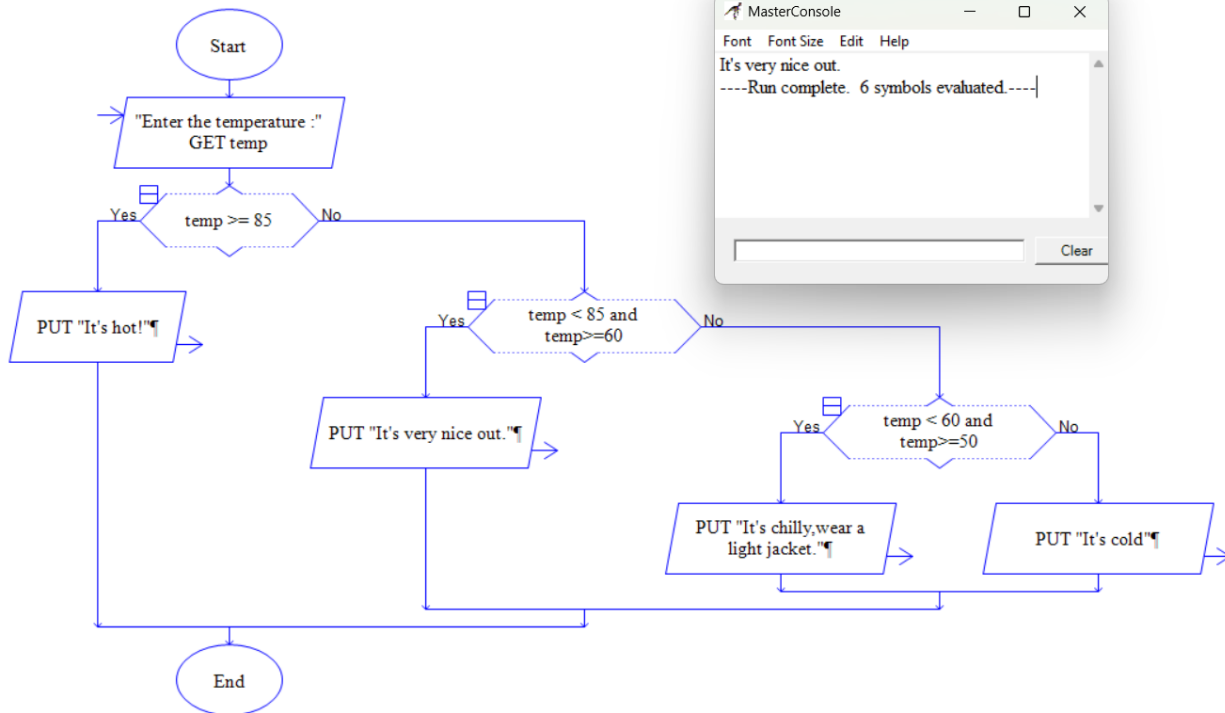
8. Create a flowchart which computes the sum, average, and product of two numbers then prints their values.



```

MasterConsole
Font Font Size Edit Help
Sum = 30
Product = 200
Average = 15
----Run complete. 10 symbols evaluated.----
  
```

9. Create a flowchart which asks the user for the temperature.  
 If the temperature is greater than or equal to 85, print "It's hot!"  
 If the temperature is less than 85 but greater than or equal to 60, print "It's very nice out."  
 If the temperature is below 60 but above or equal to 50, print "It's chilly, wear a light jacket."  
 Otherwise, print "It's cold."  
 Use nested decision structures to model this flowchart.



10. Create a flowchart to swap 2 numbers.

