**Aim**: Write the program for the following: (by using control statements and control structure)

(F). Write a recursive function to print the factorial for a given number.

Theory: -

**Practical Implementation:-**

```
# python program to find the factorial of a number using recursion
def recur_factorial (n):
  """function to return the factorial of a number using recursion"""
  if n == 1:
    return n
  else:
    return n*recur_factorial(n-1)
# take input from the user
num = int(input("enter a number: "))
# check is the number is negative
if num < 0:
  print("sorry,factorial does not exist for negative number")
elif num == 0:
  print("the factorial of 0 is 1")
else:
  print("the factorial of",num,"is",recur_factorial(num))
```

## output:-

## Conclusion:-