

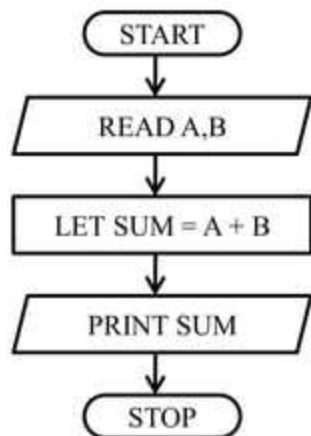
PYTHON PROGRAMMING

ADDITION OF TWO NUMBERS

Algorithm

1. START
2. READ A,B
3. LET SUM = A + B
4. PRINT SUM
5. STOP

Flow chart



Python program

```
# Sum of two numbers
a=input ('Enter first number')
b=input ('Enter second number')
sum=a+b
print ('Sum of given numbers =',sum)
```

Output

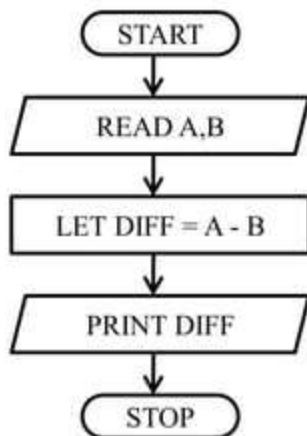
```
Enter first number10
Enter second number8
('Sum of given numbers =', 18)
```

SUBTRACTION OF TWO NUMBERS

Algorithm

1. START
2. READ A, B
3. LET DIFF = A - B
4. PRINT DIFF
5. STOP

Flow chart



Python program

```
# Difference between two numbers
a=input ('Enter first number')
b=input ('Enter second number')
diff=a-b
print ('Difference of given numbers =',diff)
```

Output

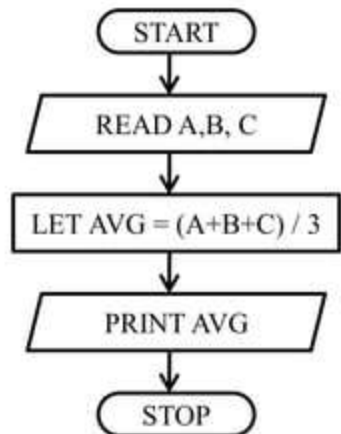
```
Enter first number10
Enter second number5
('Difference of given numbers =', 5)
```

AVERAGE OF THREE NUMBERS

Algorithm

1. START
2. READ A, B, C
3. LET $AVG = (A+B+C) / 3$
4. PRINT AVG
5. STOP

Flow chart



Python program

```
# Average of three numbers
a=input ('Enter first number')
b=input ('Enter second number')
C=input ('Enter third number')
avg=(a+b+c)/3
print ('Average of three numbers =',avg)
```

Output

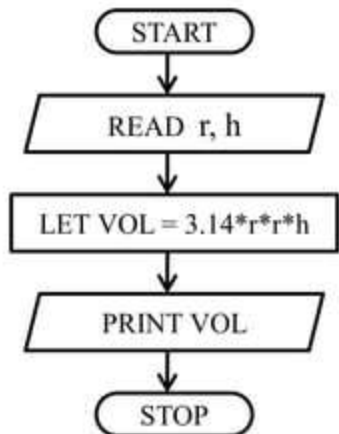
```
Enter first number10
Enter second number5
Enter third number15
('Average of three numbers =',10)
```

VOLUME OF CYLINDER

Algorithm

1. START
2. READ r, h
3. LET $VOL = 3.14 * r * r * h$
4. PRINT VOL
5. STOP

Flow chart



Python program

```
# Volume of cylinder
r=input ('Enter radius')
h=input ('Enter height')
volume = 3.14*r*r*h
print ('Volume of cylinder=',volume)
```

Output

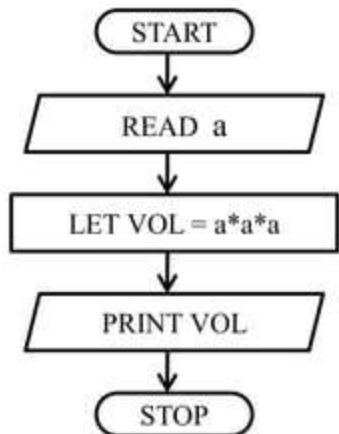
```
Enter radius5
Enter height10
('Volume of cylinder =', 785.0)
```

VOLUME OF CUBE

Algorithm

1. START
2. READ a
3. LET VOL = $a*a*a$
4. PRINT VOL
5. STOP

Flow chart



Python program

```
# Volume of cube
a=input ('Enter one side of cube')
volume = a*a*a
print ('Volume of cube=',volume)
```

Output

```
Enter one side of cube5
('Volume of cube =', 125.0)
```

CONVERSION OF CELSIUS TO FAHRENHEIT

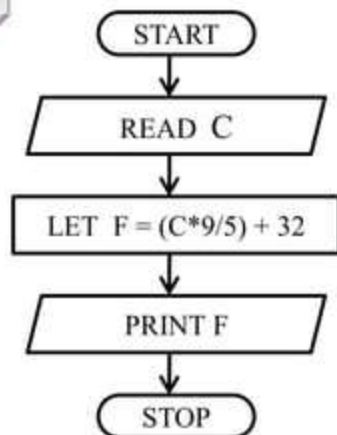
Algorithm

1. START
2. READ C
3. LET $F = (C \times 9/5) + 32$
4. PRINT F
5. STOP

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 5/9$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 9/5) + 32$$

Flow chart



Python program

```
# Convert Celsius to Fahrenheit
c=input ('Enter heat in degree Celsius')
f=(c*9/5)+32
print ('Heat in Fahrenheit scale =',f)
```

Output

```
Enter heat in degree Celsius37
('Heat in Fahrenheit scale =',98)
```

CONVERSION OF FAHRENHEIT TO CELSIUS

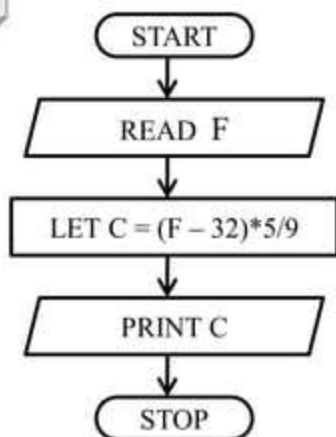
Algorithm

1. START
2. READ F
3. LET $C = (F - 32) \times 5/9$
4. PRINT C
5. STOP

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 5/9$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 9/5) + 32$$

Flow chart



Python program

```
# Convert Fahrenheit to Celsius
f=input ('Enter heat in Fahrenheit')
c=(f-32)*5/9
print ('Heat in Celsius scale =',c)
```

Output

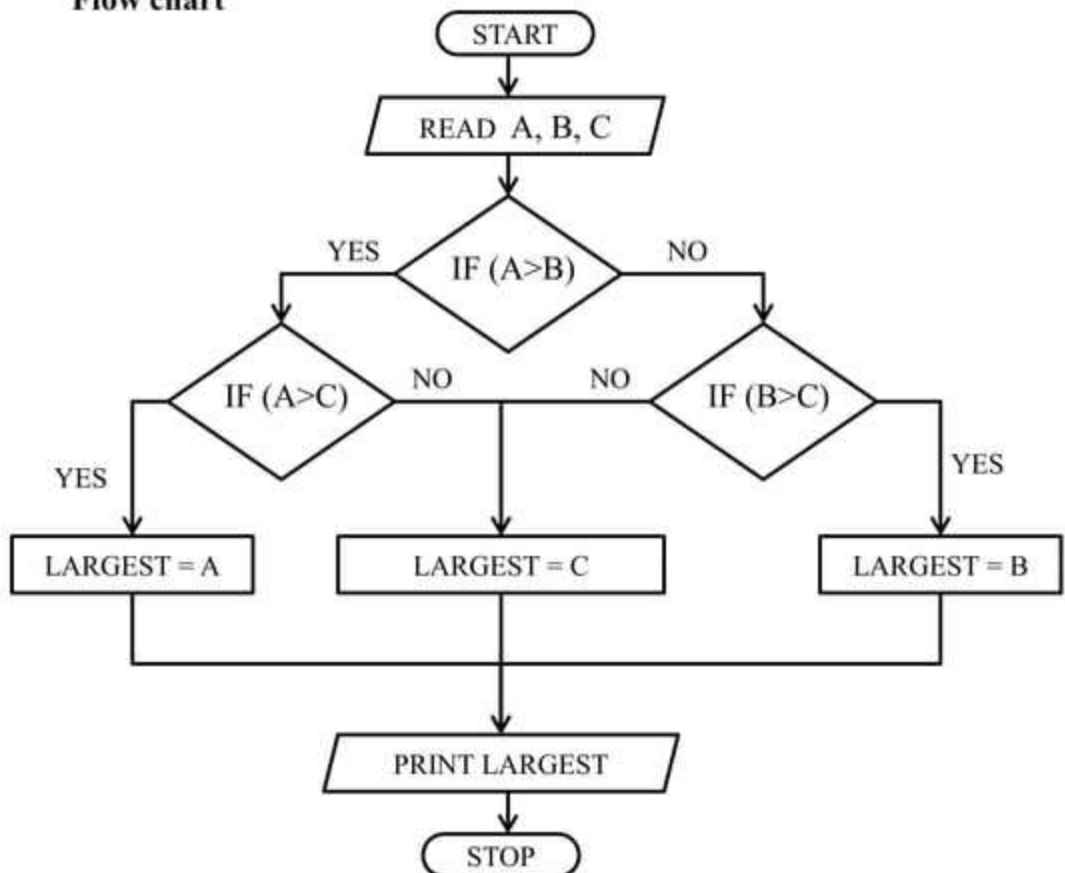
```
Enter heat in Fahrenheit98
('Heat in Celsius scale =',37)
```


LARGEST OF THREE NUMBERS

Algorithm

1. START
2. READ A, B, C
3. IF (A>B):
 IF (A>C):
 LARGEST=A
 ELSE:
 LARGEST=C
ELSE:
 IF (B>C):
 LARGEST=B
 ELSE :
 LARGEST=C
4. PRINT LARGEST
5. STOP

Flow chart



Python program

```
# Largest of three numbers
a=input ('Enter first number')
b=input ('Enter second number')
c=input ('Enter third number')
if (a>b):
    if (a>c):
        largest=a
    else:
        largest=b
else:
    if (b>c):
        largest=b
    else:
        largest=c
print ('Largest of three numbers is',largest)
```

Output

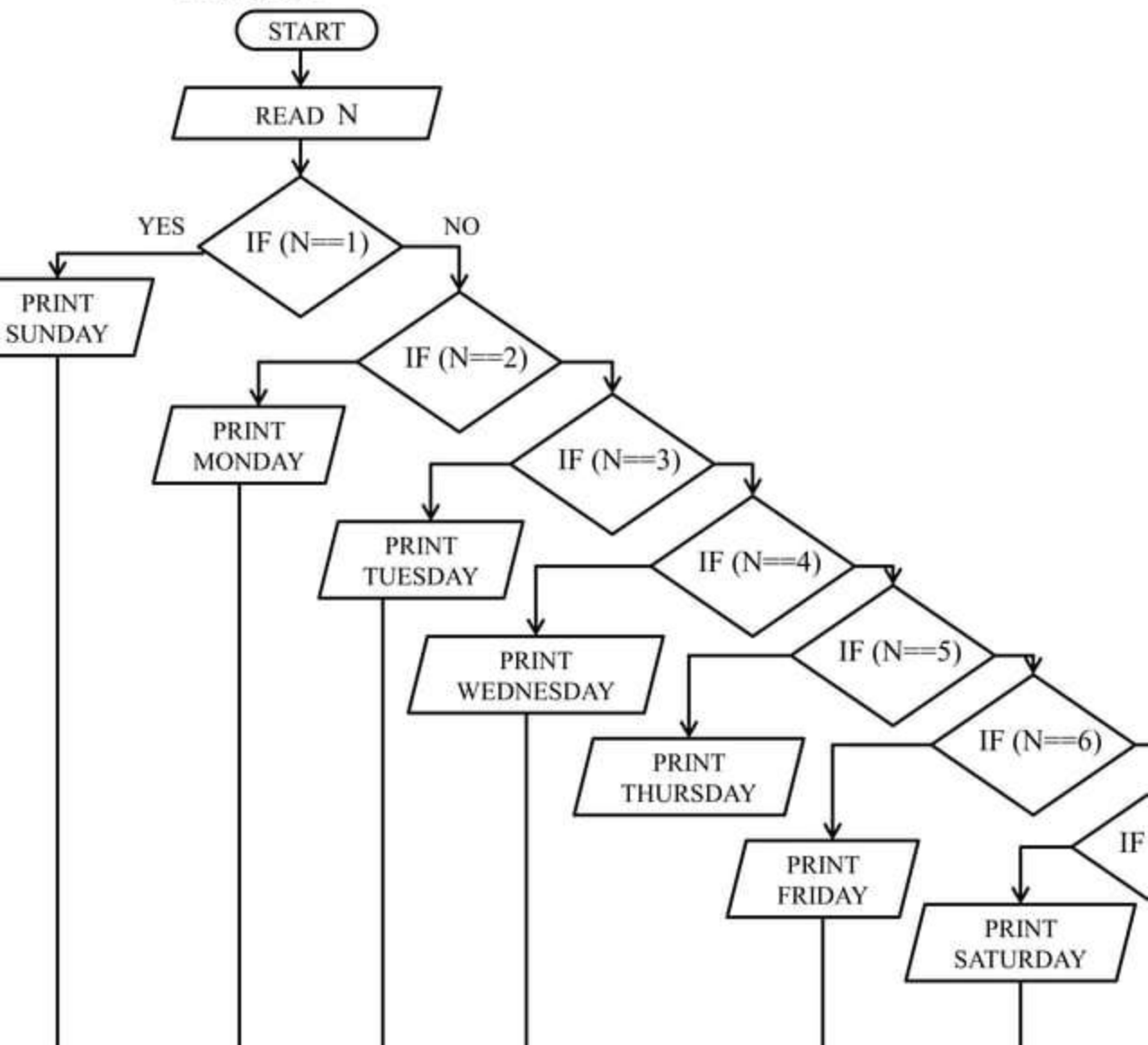
```
Enter first number 5
Enter second number 6
Enter third number 88
('Largest of three numbers is', 88)
```

CHARACTER NAME OF THE DAY

Algorithm

1. START
2. READ N
3. IF (N==1): PRINT SUNDAY
ELIF (N==2): PRINT MONDAY
ELIF (N==3): PRINT TUESDAY
ELIF (N==4): PRINT WEDNESDAY
ELIF (N==5): PRINT THURSDAY
ELIF (N==6): PRINT FRIDAY
ELIF (N==7): PRINT SATURDAY
ELSE: PRINT INVALID DAY NUMBER
4. STOP

Flow chart

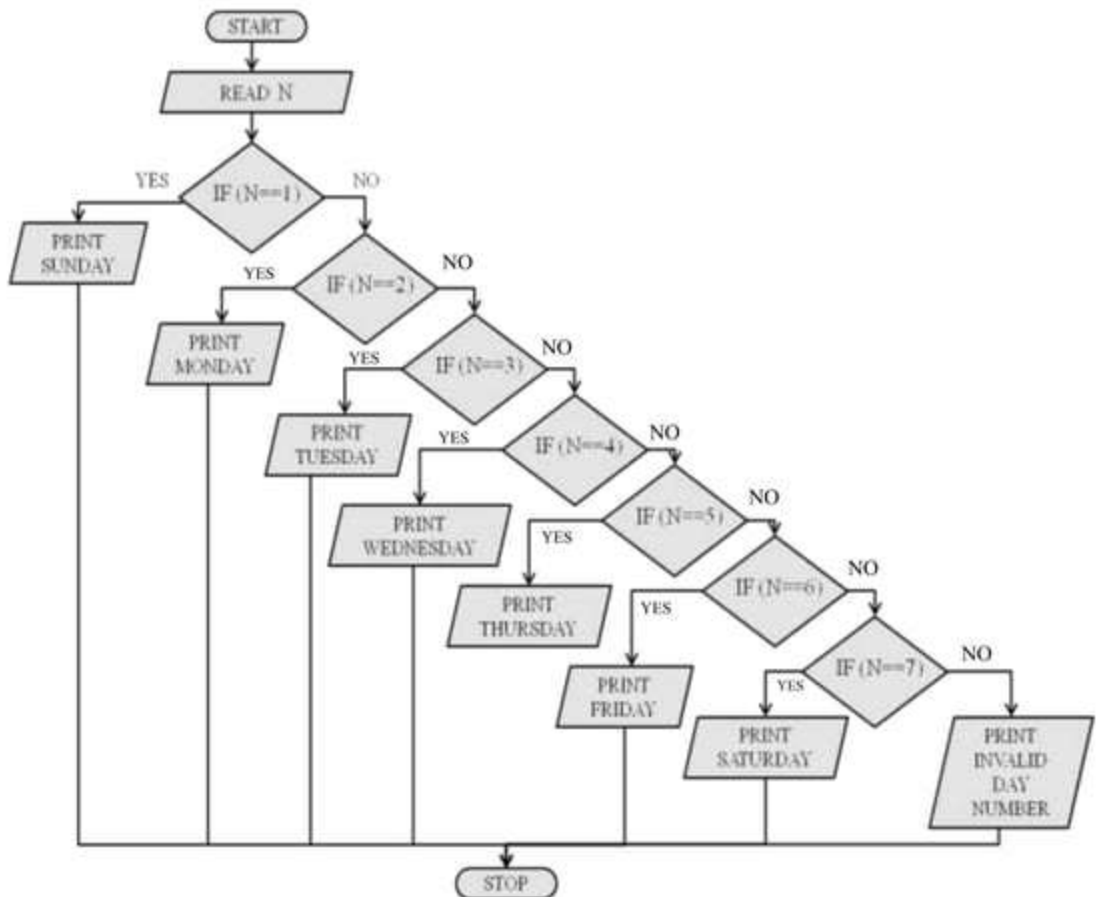


CHARACTER NAME OF THE DAY

Algorithm

1. START
2. READ N
3. IF (N==1): PRINT SUNDAY
ELIF (N==2): PRINT MONDAY
ELIF (N==3): PRINT TUESDAY
ELIF (N==4): PRINT WEDNESDAY
ELIF (N==5): PRINT THURSDAY
ELIF (N==6): PRINT FRIDAY
ELIF (N==7): PRINT SATURDAY
ELSE: PRINT INVALID DAY NUMBER
4. STOP

Flow chart



Python program

```
# Character name of the day
n=input('Enter the day number')
if (n==1):
    print ('Sunday')
elif (n==2):
    print ('Monday')
elif (n==3):
    print ('Tuesday')
elif (n==4):
    print ('Wednesday')
elif (n==5):
    print ('Thursday')
elif (n==6):
    print ('Friday')
elif (n==7):
    print ('Saturday')
else:
    print ('Not a valid day number')
```

Output

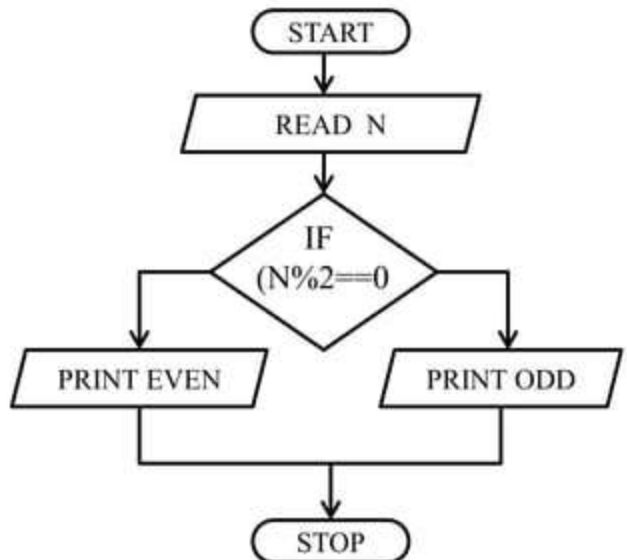
```
Enter the day number2
Monday
```

ODD OR EVEN

Algorithm

1. START
2. READ N
3. IF ($N \% 2 == 0$):
 PRINT EVEN
ELSE
 PRINT ODD
4. STOP

Flow chart



Python program

```
# To find given number is odd or even number
n=input ('Enter number')
if (n%2==0):
    print ('Even number')
else:
    print ('Odd number')
```

Output

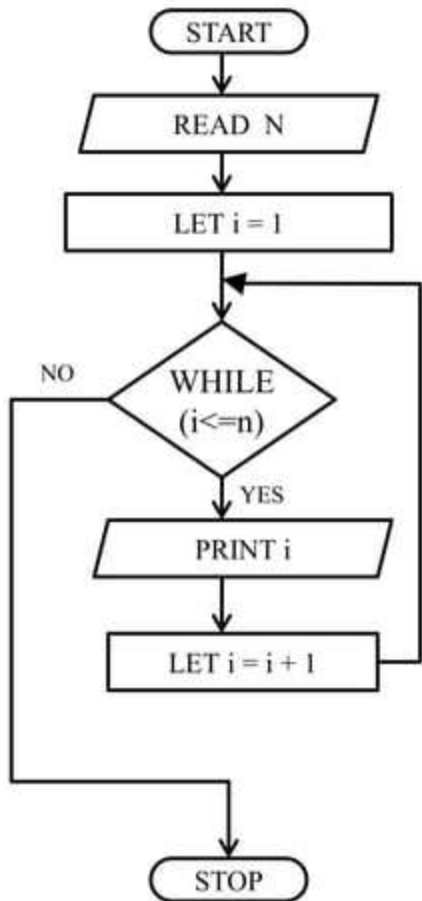
```
Enter nubers5
Odd number
```

TO PRINT N NATURAL NUMBERS

Algorithm

1. START
2. READ N
3. LET $i=1$
4. WHILE ($i \leq N$):
 PRINT i
 LET $i = i+1$
5. STOP

Flow chart



Python program

```
# To print N natural numbers
n=input ('Enter Limit')
i=1
While (i<=n):
    print i
    i = i+1
```

Output

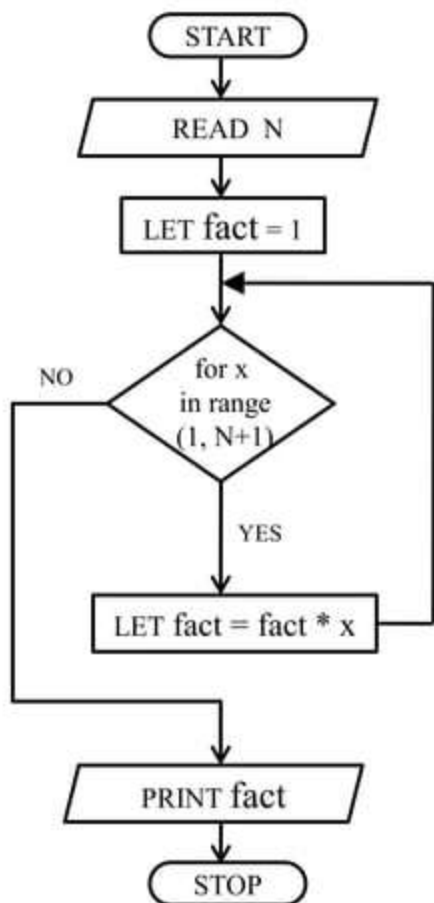
```
Enter Limit3
1
2
3
```

FACTORIAL OF A NUMBER

Algorithm

1. START
2. READ N
3. LET fact =1
4. FOR x IN RANGE (1, N+1):
 fact = fact * x
5. PRINT fact
6. STOP

Flow chart



Python program

```
# To print factorial of a number
n=input ('Enter number')
fact=1
For x in range (1, n+1):
    fact=fact*x
Print ('Factorial of given number is', fact)
```

Output

```
Enter number5
Factorial of given number is 120
```