```python
# function
def f(x):  new *
    y = x * x
    return y
print("f(1) = " , f(1))
print("f(0) = " , f(0))
print("f(2) = " , f(2))

# 10-2
def Celsius_to_Fahrenheit(x):  1 usage  new *
    F = 9 / 5 * x + 32
    return F

t = eval(input("Please enter temperature in Celsius: "))
print("The temperature is: ", Celsius_to_Fahrenheit(t))

# 10-3
import math
def Cnk(n, k):  3 usages  new *
    coeff = math.factorial(n) / (math.factorial(k) * math.factorial(n - k))
    return int(coeff)

print("C(5, 3)", Cnk( n: 5,  k: 3))
print("C(5, 3)", Cnk(n= 5, k = 3))
print("C(5, 3)", Cnk(k = 3, n = 5))
```

```python
# 10-4
def Cnk(n = 5, k = 3 ):  2 usages  new *
    coeff = math.factorial(n) / (math.factorial(k) * math.factorial(n - k))
    return int(coeff)
print("C(5, 3)", Cnk())
print("C(6, 4)", Cnk( n: 6,  k: 4))

# 10-5
def f(x):  new *
    y = x * x
    return y

# 10-6
def ff(x):  new *
    x = x + 1
    print("The value of x in function is: ", x)

def main():  new *
    # 10-5
    print("f(1) = ", f(1))
    print("f(0) = ", f(0))
    print("f(-1) = ", f(-1))

    # 10-6
    x = 1
    print("The value of x before function call is: ", x)
    f(x)
    print("The value of x after function call is: ", x)
```

```python

# 10-7
def isPrime(n):  2 usages  new *
    for i in range(2, n//2 + 1):
        if n % i == 0:
            return False
    return True

number = eval(input("Please enter a positive number: "))

if isPrime(number):
    print("The entered number is Prime")
else:
    print("The entered number is Not Prime")

# 10-8
num_of_prime = 0
n = 2
while num_of_prime < 50:
    if isPrime(n):
        print(format(n, "4d"), end=" ")
        num_of_prime += 1
        if num_of_prime % 10 == 0:
            print()
    n += 1
```

```
/usr/local/bin/python3.12 /Users/pengyenjia/Desktop/運算思維與程式設計/makeUp_Submission_py/4_29/課堂練習/11227130_資訊二甲_11227130_彭妍嘉 4_29.py
f(1) =  1
f(0) =  0
f(2) =  4
Please enter temperature in Celsius: 34
The temperature is:  93.2
C(5, 3) 10
C(5, 3) 10
C(5, 3) 10
C(5, 3) 10
C(6, 4) 15
Please enter a positive number: 4
The entered number is Not Prime
   2    3    5    7   11   13   17   19   23   29
  31   37   41   43   47   53   59   61   67   71
  73   79   83   89   97  101  103  107  109  113
 127  131  137  139  149  151  157  163  167  173
 179  181  191  193  197  199  211  223  227  229

Process finished with exit code 0
```