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number = int(input("Enter an integer: "))
if number % 3 == 0 and number % 5 == 0:
   print("Divisible by 3 and 5")
else:
   print("Not divisible by 3 and 5")
    Enter an integer: 10
    Not divisible by 3 and 5
number = int(input("Enter a positive integer: "))
sum of digits = 0
while number > 0:
   digit = number % 10
   sum of digits += digit
   number //= 10
print("Sum of digits:", sum_of_digits)

→ Enter a positive integer: 12
    Sum of digits: 3
def count even odd():
   even\_count = 0
   odd count = 0
   while True:
       user_input = input("Enter a number (0 to stop): ")
        if user_input.isdigit() or (user_input.startswith('-') and user_input[1:].isdigit()):
           number = int(user_input)
        else:
           print("Please enter a valid integer.")
            continue
       if number == 0:
           break
        if number % 2 == 0:
            even_count += 1
        else:
           odd_count += 1
   print(f"Total even numbers: {even_count}")
   print(f"Total odd numbers: {odd_count}")
count_even_odd()
Enter a number (0 to stop): 10
    Enter a number (0 to stop): 0
    Total even numbers: 1
    Total odd numbers: 0
from re import I
number = int(input("Enter a positive integer: "))
if number < 0:
   print("Please enter a positive integer.")
else:
    factorial = 1
    for i in range(1, number + 1):
       factorial *= i
    print(f"The factorial of {number} is {factorial}")
   Enter a positive integer: 10
    The factorial of 10 is 3628800
number= int(input("Enter a number to generate its multipication table:"))
print(f"Multification table for{number}:")
for i in range(1,13):
 result = number *i
 print(f"{number} *{i}= {result}")
```

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→ Enter a number to generate its multipication table:5
    Multification table for5:
    5 *1= 5
5 *2= 10
    5 *3= 15
    5 *4= 20
5 *5= 25
    5 *6= 30
5 *7= 35
    5 *8= 40
    5 *9= 45
5 *10= 50
5 *11= 55
    5 *12= 60
numbers = []
while True:
    num = int(input("Enter a number (-1 to stop): "))
    if num == -1:
        break
    numbers.append(num)
if numbers:
    largest_number = max(numbers)
    print("The largest number is:", largest_number)
else:
    print("No numbers were entered.")
   Enter a number (-1 to stop): -1
    No numbers were entered.
number = int(input("Enter a number to check if it's prime: "))
if number < 2:
    print("Not Prime")
else:
    is_prime = True
    for i in range(2, int(number**0.5) + 1):
        if number % i == 0:
            is_prime = False
            break
    if is prime:
        print("Prime")
    else:
        print("Not Prime")

→ Enter a number to check if it's prime: 10
    Not Prime
score = int(input("Enter the student's score: "))
if 90 <= score <= 100:
    grade = "A"
elif 80 <= score < 90:
    grade = "B"
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elif 70 <= score < 80:
    grade = "C"

elif 60 <= score < 70:
    grade = "D"

elif score < 60:
    grade = "F"

else:
    grade = "Invalid score"

print("The grade is:", grade)

The grade is: A</pre>
```