TASK 1:-

```
def multiply(a, b):
    return a * b

print("Multiplication =", multiply(4, 5))


def even_odd(num):
    if num % 2 == 0:
        return "Even"
    else:
        return "Odd"

print(even_odd(7))


def maximum(a, b, c):
    return max(a, b, c)

print("Maximum number =", maximum(10, 25, 15))

def factorial(n):
    fact = 1
    for i in range(1, n + 1):
        fact = fact * i
    return fact

print("Factorial =", factorial(5))
```

```
def count_vowels(text):
    count = 0
    for ch in text:
        if ch in "aeiouAEIOU":
            count += 1
    return count

print("Vowels count =", count_vowels("Python Programming"))


def reverse_string(text):
    return text[::-1]

print("Reversed string =", reverse_string("Python"))

def is_prime(num):
    if num <= 1:
        return "Not Prime"
    for i in range(2, num):
        if num % i == 0:
            return "Not Prime"
    return "Prime"

print(is_prime(7))


def greet(name="Student"):
```

```
    print("Hello", name)

greet()
greet("Alice")


def student_info(name, age):
    print("Name:", name)
    print("Age:", age)

student_info(age=25, name="abc")


def fibonacci(n):
    if n <= 1:
        return n
    else:
        return fibonacci(n - 1) + fibonacci(n - 2)

print("Fibonacci series:")
for i in range(6):
    print(fibonacci(i), end=" ")

square = lambda x: x * x
print("\nSquare =", square(6))
```

TASK 2:-

```
try:
    a = int(input("Enter numerator: "))
    b = int(input("Enter denominator: "))
    result = a / b
    print("Result =", result)
except ZeroDivisionError:
    print("Error: Cannot divide by zero")

try:
    num = int(input("Enter a number: "))
    print("You entered:", num)
except ValueError:
    print("Error: Please enter a valid integer")

try:
    x = int(input("Enter a number: "))
    print("Square =", x * x)
except:
    print("Error occurred")

try:
```

```
    num = int(input("Enter a number: "))
except ValueError:
    print("Invalid input")
else:
    print("Number entered:", num)
    print("Square =", num * num)

try:
    a = int(input("Enter first number: "))
    b = int(input("Enter second number: "))
    print("Division =", a / b)
except ZeroDivisionError:
    print("Cannot divide by zero")
finally:
    print("Program execution completed")

try:
    a = 10
    b = "Python"
    print(a + b)
except TypeError:
    print("Error: Cannot add integer and string")

try:
    num = int(input("Enter a number: "))
    result = 10 / num
    print("Result =", result)
except (ValueError, ZeroDivisionError):
```

```
    print("Error: Invalid input or division by zero")


age = int(input("Enter age: "))
if age < 18:
    raise Exception("Age must be 18 or above")
else:
    print("Eligible to vote")
```