**33.\*\* Write a Python program to input a positive integer. Display correct message for correct and incorrect input. (Use Exception Handling)**

def input\_positive\_integer():

try:

num = int(input("Enter a positive integer: "))

if num <= 0:

raise ValueError("The number must be positive.")

print(f"Valid input! You entered: {num}")

except ValueError as e:

print(f"Invalid input: {e}")

input\_positive\_integer()

**Write a python program to check the given number is prime or not. Handle Suitable Exception**

def is\_prime(num):

if num <= 1:

return False

for i in range(2, int(num \*\* 0.5) + 1):

if num % i == 0:

return False

return True

def check\_prime():

try:

num = int(input("Enter a number to check if it is prime: "))

if num < 0:

raise ValueError("Negative numbers cannot be prime.")

if is\_prime(num):

print(f"{num} is a prime number.")

else:

print(f"{num} is not a prime number.")

except ValueError as e:

print(f"Invalid input: {e}")

check\_prime()

**Write a program for registering for Driving Licence, if age is less than 18 then it should throw an exception with message ‘Not a valid age’. Else ‘successful registration’ message should be displayed**.

def register\_driving\_licence():

try:

age = int(input("Enter your age: "))

if age < 18:

raise Exception("Not a valid age.")

print("Successful registration!")

except Exception as e:

print(f"Registration failed: {e}")

register\_driving\_licence()

**Write a function to compute 5/0 and use try/except to catch the exceptions**

def compute\_division():

try:

result = 5 / 0

print(f"Result: {result}")

except ZeroDivisionError as e:

print(f"Exception caught: {e}")

compute\_division()