Create a program that allows the user to do some basic functions.

First, ask the user if they would like to find out sqrt, log or factorial of a number, then return the results.

Code Starts from here ———————————————-

import math

# Function to calculate the square root

def calculate\_sqrt():

num = float(input("Enter the number to calculate the square root:\n> "))

result = math.sqrt(num)

print(f"The square root of {num} is: {result}")

# Function to calculate the logarithm

def calculate\_log():

num = float(input("Enter the number to calculate the logarithm:\n> "))

result = math.log(num)

print(f"The logarithm of {num} is: {result}")

# Function to calculate the factorial

def calculate\_factorial():

num = int(input("Enter the number to calculate the factorial:\n> "))

result = math.factorial(num)

print(f"The factorial of {num} is: {result}")

# Main program

print("Welcome to the simple math helper.")

print("\nWhat would you like to calculate?")

print("1. Square root")

print("2. Logarithm")

print("3. Factorial")

choice = input("> ")

# Perform the corresponding calculation based on the user's choice

if choice == '1':

calculate\_sqrt()

elif choice == '2':

calculate\_log()

elif choice == '3':

calculate\_factorial()

else:

print("Invalid choice. Please try again.")

print("Invalid choice. Please try again.")

Output:-

Welcome to the simple math helper.

What would you like to calculate?

1. Square root

2. Logarithm

3. Factorial

> 1

Enter the number to calculate the square root:

> 9

The square root of 9.0 is: 3.0