**TASK 2**

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SECTION : B

**Department of Computer Science**

**Question number 1:**

***Calculator***

def add(x, y):

return x + y

def subtract(x, y):

return x - y

def divide(x, y):

return x / y

def multiply(x, y):

return x \* y

print("Select operation.")

print("1. Add")

print("2. Subtract")

print("3. Divide")

print("4. Multiply")

choice = input("Enter choice(1/2/3/4): ")

num1 = float(input("Enter first number: "))

num2 = float(input("Enter second number: "))

if choice == '1':

print(num1,"+",num2,"=", add(num1,num2))

elif choice == '2':

print(num1,"-",num2,"=", subtract(num1,num2))

elif choice == '3':

print(num1,"/",num2,"=", divide(num1,num2))

elif choice == '4':

print(num1,"\*",num2,"=", multiply(num1,num2))

else:

print("Invalid input")

**Question no 2**

***Pyramid***

# Set the number of rows in the pyramid

rows = 5

for i in range(rows):

spaces = rows - i - 1

asterisks = 2 \* i + 1

print(" " \* spaces + "\*" \* asterisks)

**Question no 3**

**Face Recognization**

**Image recognition:** The ability to recognize and locate faces in images or video streams.

**Feature extraction:** The ability to extract and analyze specific features of the face, such as the shape of the eyes, nose, and mouth.

**Classification:** The ability to classify faces based on certain characteristics, such as gender, age, or facial expression.

**Tracking:** The ability to track and follow the movements of a face over time.

**Privacy protection:** The ability to ensure that personal data is collected, used, and stored in a manner that protects the privacy of individuals.

**Scalability:** The ability to handle large amounts of data and to work with a wide range of input devices and formats.

**Question 4:**



**Question 5:**

