

Start coding or generate with AI.

1. Python program to add 2 numbers

```
num1 = 5
num2 = 10
sum = num1 + num2
print(sum)
```

↻ 15

2. Python program to take user input and add two numbers

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
sum = num1 + num2
print(sum)
```

↻ Enter the first number: 5
Enter the second number: 10
15

3. Python program to implement simple calculator

```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
print("sum: ", num1+num2)
print("subtraction: ", num1-num2)
print("multiplication: ", num1*num2)
print("division: ", num1/num2)
```

↻ Enter the first number: 5
Enter the second number: 10
sum: 15
subtraction: -5
multiplication: 50
division: 0.5

4. Python program to enter a word and check its palindrome

```
num1 = input("Enter the word: ")
if num1 == num1[::-1]:
    print("palindrome")
else:
    print("not palindrome")
```

↻ Enter the word: anish
not palindrome

5. Python program to upload image and perform differnt task

```
from PIL import Image, ImageFilter
import io

if uploaded:
    image_filename = next(iter(uploaded))
    image_bytes = uploaded[image_filename]


    img = Image.open(io.BytesIO(image_bytes))

    img_gray = img.convert('L')
    print("Grayscale image:")
    display(img_gray)

    img_blur = img.filter(ImageFilter.GaussianBlur(5))
    print("Blurred image:")
    display(img_blur)

    img_rotated = img.rotate(90, expand=True)
    print("Rotated image (90 degrees clockwise):")
    display(img_rotated)

else:
    print("No image was uploaded.")
```

 Grayscale image:



Blurred image:



Rotated image (90 degrees clockwise):



6. Python program for handling video files

```
from google.colab import files
import cv2

uploaded_video = files.upload()

if uploaded_video:
    video_filename = next(iter(uploaded_video))
    video_bytes = uploaded_video[video_filename]

    # Save the uploaded video bytes to a temporary file
    with open(video_filename, 'wb') as f:
        f.write(video_bytes)

    # Open the video file using OpenCV
    cap = cv2.VideoCapture(video_filename)

    if not cap.isOpened():
        print("Error: Could not open video file.")
    else:
        # Get the number of frames
        num_frames = int(cap.get(cv2.CAP_PROP_FRAME_COUNT))
        print(f"The video has {num_frames} frames.")

        # Release the video capture object
        cap.release()

else:
    print("No video was uploaded.")
```



Choose Files 13691-251...5_small.mp4

- **13691-251858985_small.mp4**(video/mp4) - 1223004 bytes, last modified: 7/31/2025 - 100% done
- Saving 13691-251858985_small.mp4 to 13691-251858985_small.mp4
The video has 200 frames.