1. Python program to add two numbers

```
num1 = 6
num2 = 10
sum = num1 + num2
print(sum)
```

```
16
```

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: 3
Enter the second number: 5
8
```

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: 8
sum:  13
subtraction:  -3
multiplication:  40
division:  0.625
```

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: claydon
not palindrome
```

5.Python program to upload image and perform differnt task

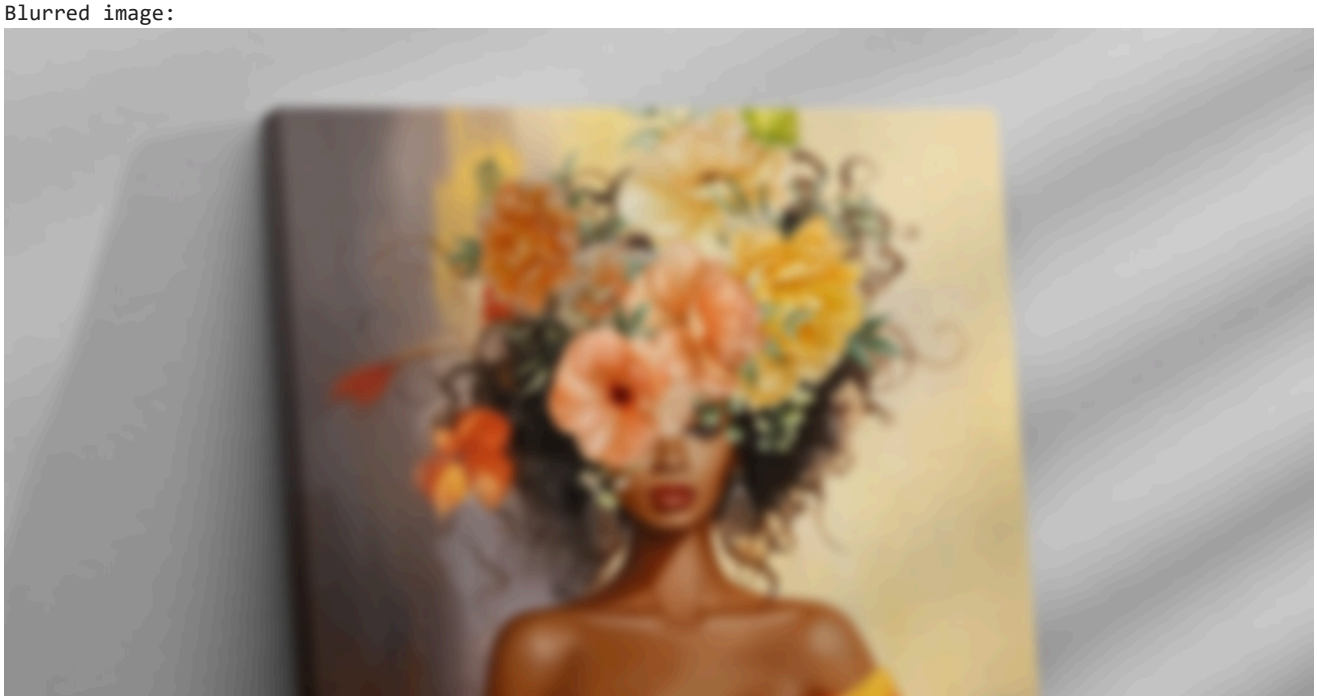
```
from PIL import Image, ImageFilter
import io
from IPython.display import display
import ipywidgets as widgets


uploaded = widgets.FileUpload(accept='image/*', multiple=False)
display(uploaded)

def process_image(change):
    if uploaded.value:
        image_filename = next(iter(uploaded.value))
        image_bytes = uploaded.value[image_filename]['content']
```

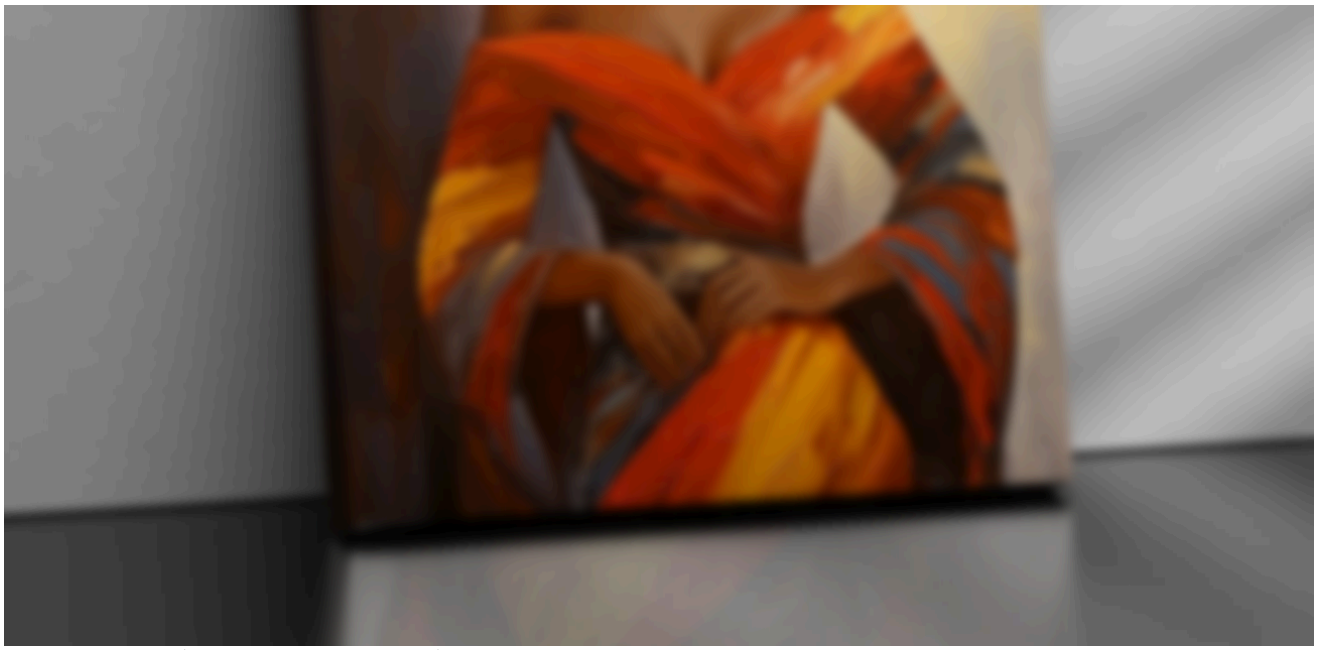
```
            img = Image.open(io.BytesIO(image_bytes))

            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.")

    uploaded.observe(process_image, names='value')
```

Upload (1)

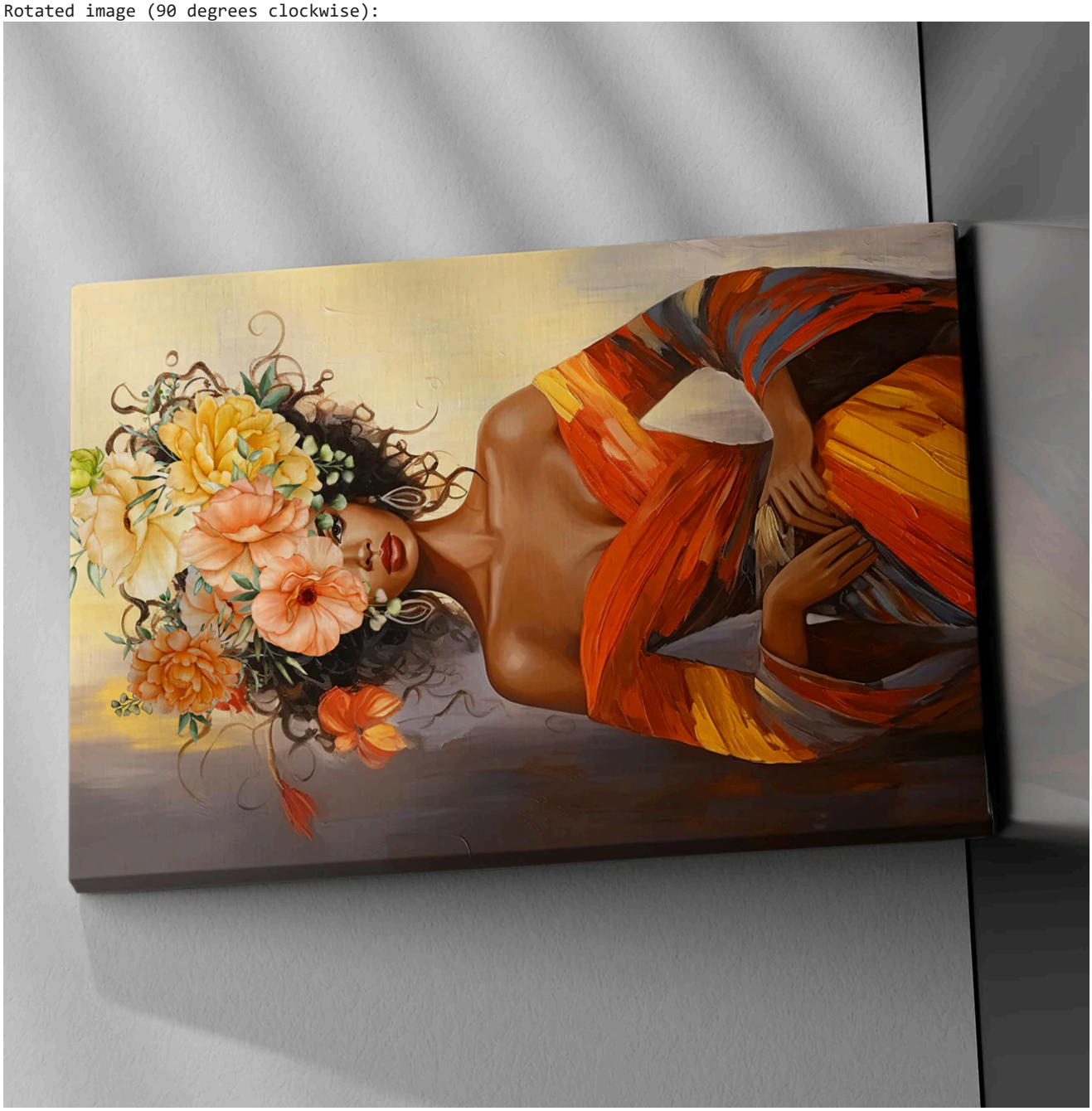
```
Grayscale image:
```

```
Blurred image:
```





```
Rotated image (90 degrees clockwise):
```



6.Python program for handling video files

```
from google.colab import files
import cv2

# Upload video file
uploaded_video = files.upload()

if uploaded_video:
    video_filename = next(iter(uploaded_video))

    # Save uploaded bytes to disk
    with open(video_filename, 'wb') as f:
        f.write(uploaded_video[video_filename])
```