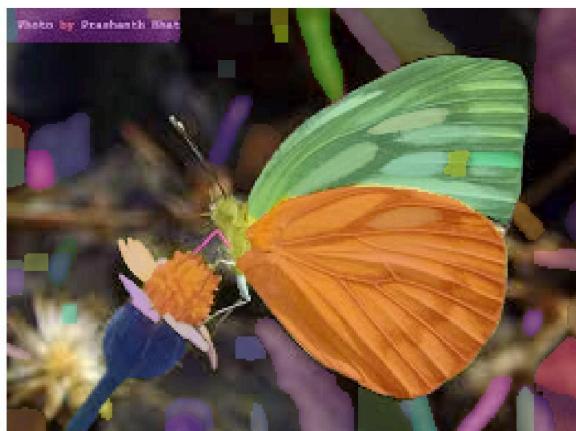


Initially:

ORIGINAL :



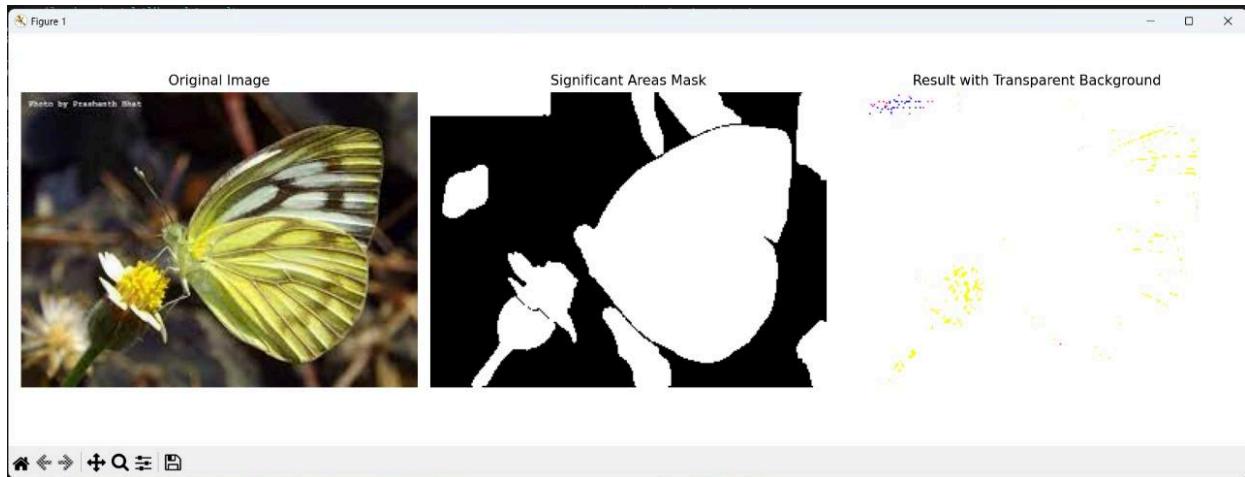
MASKED : 63 CLASSES



```
KeyboardInterrupt
PS D:\segment-anything-main\segment-anything-main> python SAM-auto-segmentation.py
PyTorch version: 2.1.0+cu121
Torchvision version: 0.16.0+cu121
CUDA is available: True
loaded part1
loaded part2 : masks generated
63
loaded part3 : masks displayed
PS D:\segment-anything-main\segment-anything-main> ls
```

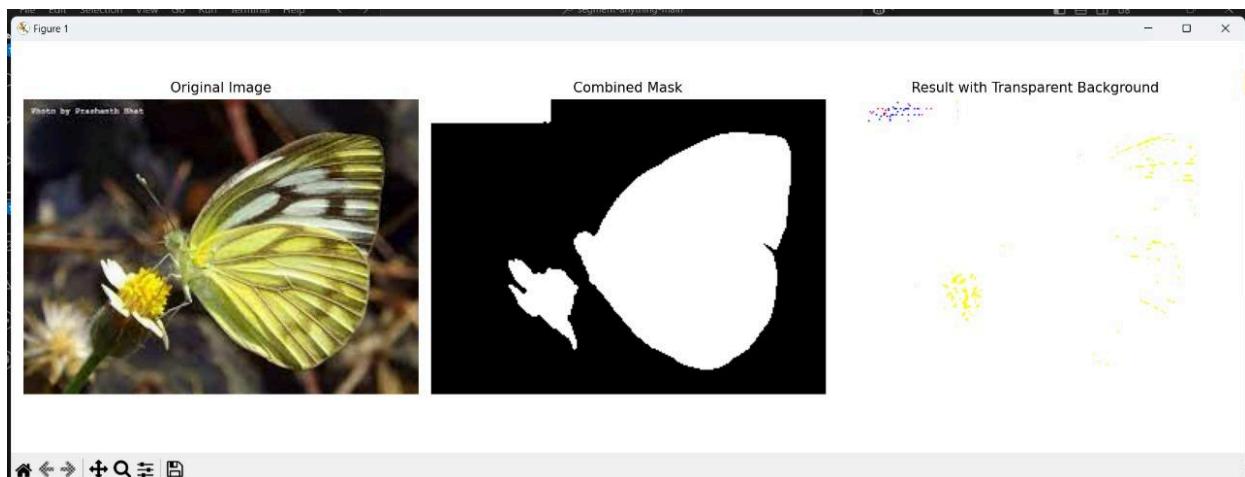
REDUCE THE CLASSES,
SORT ON BASIS OF AREA CAPTURED BY CLASSES

REMAINING CLASSES : RANGE : 15-20



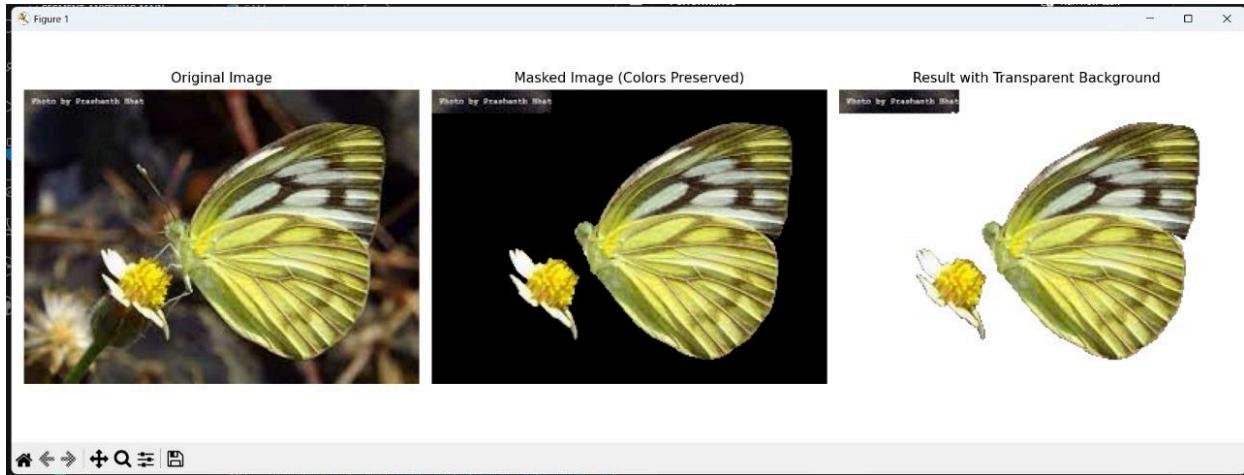
AGAIN REDUCE THE CLASSES

REMAINING CLASSES : RANGE : 5-8



APPLY TRANSITION ON 1st MASKED IMAGE :

MASKED = ORIGINAL * MASKED



AREA CALCULATION AFTER REDUCING/REMOVING THE UNWANTED CLASSES:

```
PS D:\segment-anything-main\segment-anything-main> python SAM-auto-segmentation4.py
[INFO] Initializing the SAM model...
[INFO] Model successfully loaded.
[INFO] Loading image from: te3.jpeg
[INFO] Configuring the SAM mask generator...
[INFO] Generating masks for the image...
[INFO] Total mask classes generated: 63
[INFO] Masks sorted by area.
[INFO] Retaining top 5 dominant mask classes.
[INFO] Applying masks to retain original colors...
[DEBUG] Applying mask 1 with area: 15225
[DEBUG] Applying mask 2 with area: 8652
[DEBUG] Applying mask 3 with area: 6102
[DEBUG] Applying mask 4 with area: 1345
[DEBUG] Applying mask 5 with area: 1261
[INFO] Visualizing and saving results...
```

ISSUE:

**IT IS TAKING AROUND 10-15 MINUTES TO PRODUCE OUTPUT
ON AN 3050 RTX GPU.....(FOR H MODEL)**

sam_vit_b_01ec64.pth	15-11-2024 12:55	PTH File	3,66,253 KB
sam_vit_h_4b8939.pth	14-11-2024 19:11	PTH File	25,04,445 ...
sam_vit_l_0b3195.pth	15-11-2024 13:07	PTH File	12,20,239 ...

BASE MODELS : latency: within 10-20 seconds,



LARGE MODELS : latency: within 1-2 MINUTE,



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HUGE MODEL: latency: within 10-15 MINUTES,

