# Task 1

1. - f) See Matlab code
2. Highest ranked image: device9-20.png

A close up of a logo

Description generated with high confidence

# Task 2

1. See Matlab code
2. VisualRank vector for the 20 heart images:
3. 0.0533427139113301,
4. 0.0479909572053565,
5. 0.0521449544317273,
6. 0.0489477426126017,
7. 0.0513904692820485,
8. 0.0532249746650137,
9. 0.0505492485963589,
10. 0.0472977583716867,
11. 0.0514912398048768,
12. 0.0493367587774284,
13. 0.0510670925417854,
14. 0.0487639269372759,
15. 0.0452888701951146,
16. 0.0524531067703493,
17. 0.0515672124054859,
18. 0.0456319948596996,
19. 0.0521500344235125,
20. 0.0514203560984794,
21. 0.0489371746018224,
22. 0.0470034135080401
23. Most representative heart shaped image of the given 20 images:

A close up of a logo

Description generated with very high confidence

1. Least representative heart shaped image of the given 20 images:

A close up of a logo

Description generated with very high confidence

# Task 3

1. See Matlab code
2. 10 Nearest images to device6-18.png:
3. "device6-13.png"
4. "device6-3.png"
5. "device6-6.png"
6. "device6-15.png"
7. "device6-20.png"
8. "device6-17.png"
9. "device6-12.png"
10. "device6-11.png"
11. "device6-4.png"
12. "device6-5.png"
13. Ranked order of the nearest 10 images to device6-18.png:
14. "device6-20.png"
15. "device6-15.png"
16. "device6-6.png"
17. "device6-3.png",
18. "device6-13.png"
19. "device6-5.png"
20. "device6-4.png"
21. "device6-12.png",
22. "device6-17.png"
23. "device6-11.png"

See figure below for actual images.

Figure 1 - Ranked nearest 10 images to ‘device618.png’

A screenshot of a cell phone

Description generated with very high confidence