



# Ahsanullah University of Science and Technology

## Department of Computer Science and Engineering (CSE)

CSE1200: Software Development-I Lab, Spring 2018

Lab Group: A1    Offline: 4    Topic: Basic iGraphics

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**Task 1. (2 marks)** Implement `Void drawBGDflag(double length)`. This function draws the flag of Bangladesh whose width is equal to length passed as argument and under the flag will show the text “The Flag of Bangladesh”.

### Directions:

- The flag will be in bottle green and rectangular in size in the proportion of 10:6, with a red circle in near middle.
- The red circle will have a radius of one-fifth of the length of the flag. Its centre will be placed on the intersecting point of the perpendicular drawn from the nine-twentieth part of the length of the flag, and the horizontal line drawn through the middle of its width.



Figure 1: Flag of Bangladesh

**Task 2. (2 marks)** Implement `Void drawSWEflag(double width)` This function draws the flag of Sweden whose width is equal to length passed as argument and under the flag will show the text “The Flag of Sweden”.

### Directions:

- The flag color shall be yellow(255,194,0) gold(45,95,161).
- A blue field with a yellow Scandinavian cross that extends to the edges of the flag; the vertical part of the cross is shifted to the hoist side. Dimensions: 5:2:9 horizontally and 4:2:4 vertically.

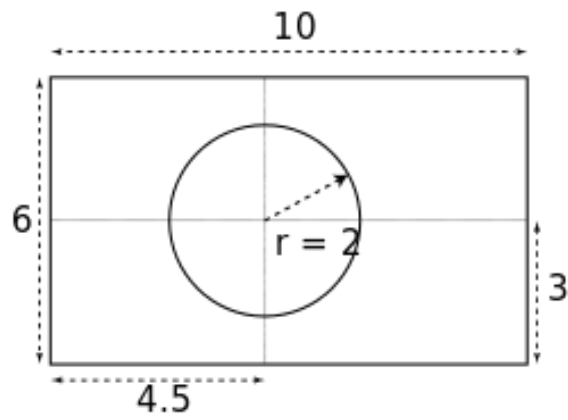


Figure 2: Measurement of flag of Bangladesh



Figure 3: Flag of Sweden

**Task 3. (2 marks)** Implement `VoidBAHflag(double length)`. This function draws the flag of Bahrain whose width is equal to length passed as argument and under the flag will show the text “The Flag of Bahrain”.

**Directions:**

- The three colors are white (255, 255, 255), red(239, 65, 53).
- The white field on the hoist side separated from a larger red field on the fly by five white triangles in the form of a zigzag pattern .



Figure 4: Flag of Bahrain

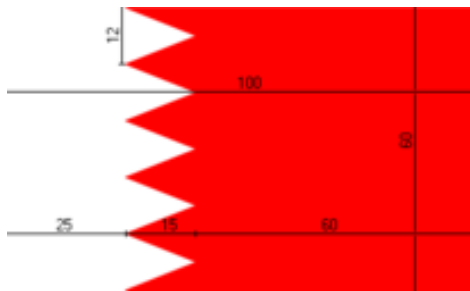


Figure 5: Measurement of flag of Bahrain

**Task 4. (4 marks)** Implement `VoidMORflag(double length):.` This function draws the flag of Morocco whose width is equal to length passed as argument and under the flag will show the text “The Flag of Morocco”.

**Directions:**

- 1) The flag shall be of red color in background, green color in the star and rectangular in shape.
- 2) The star shall be made of five continuous branches . One of its points must point upwards. The height of the flag equals two thirds ( $\frac{2}{3}$ ) of its width. The star is inscribed in an invisible



Figure 6: Flag of Morocco

circle whose radius equals one sixth ( $\frac{1}{6}$ ) of the width's length and whose centre is the intersection point of the invisible diagonal lines of the flag's rectangular. You need not make the lines bold. Just draw plain lines.