Mobile Computing

Instructor: Maulana Haq Nawaz

Instructions and Submission Guidelines

- ➢ Assignment covers basic concept of requirement gathering, views, responsive layouts, intents and Activity Lifecycle.
- ➢ Play it safe, you should know that programming tasks are evaluated ELECTRONICALLY to detect plagiarism.SO, DO NOT COPY! Anyone caught being indulged in the act of plagiarism may be awarded straight away an "F" grade in the course (Work on these questions individually to get better understanding).
- ➢ Comment your code intelligently.
- ➢ Read the complete problem statement carefully before starting the implementation.
- ➢ Any layout other than constraint layout will be graded as zero.

Deadline: 09 November, 2021, 11:59 PM   **Marks: 20**

TASK DESCRIPTON

Develop an application for emission points (makhārij al-ḥurūf). Your application should provide facility to the user for both practice and exams as we did for the sky, grass and root letters exercise. You have to analyze the tables given below, you may use images in your app as provided in this document, or you can find from internet as you like. User must provide facility to share his/her exam results to the social media. Pattern will be same as discussed in the class the first activity with the name, roll number, image of commits for current work and button to navigate to the said repository.
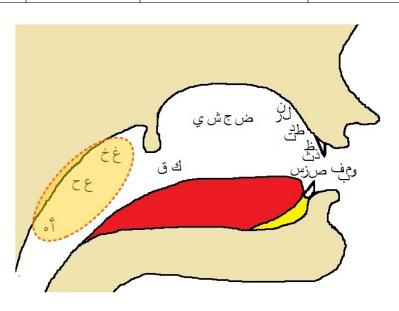
There are **17 emission points (makhārij al-ḥurūf)**, located in various regions of:
1 – Throat
2 – Tongue
3 – Lips
4 – Nose
5 – Mouth
Below shows a preview of the Makharij and Articulation points from where the the 29 Arabic letters are produced. Tables are matched with figures for the clear understanding of problem.
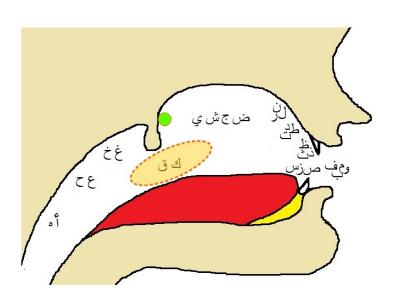
		Arabic Letters	Sound Produced from

1	Halqiyah	أ ه	**End of Throat**
2		ع ح	**Middle of Throat**
3		غ خ	**Start of the Throat**

		Arabic Letters	**Sound Produced from**

4	Lahatiyah	ق	Base of Tongue which is near Uvula touching the mouth roof
5		ک	Portion of Tongue near its base touching the roof of mouth

		Arabic Letters	Sound Produced from
6	Shajariyah-Haafiyah	ج ش ی	Tongue touching the center of the mouth roof

7		ض	One side of the tongue touching the molar teeth

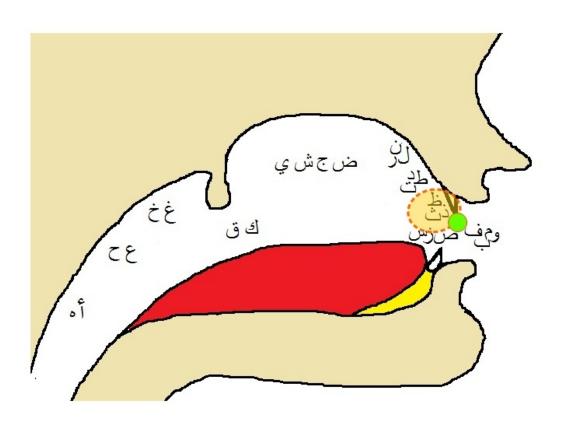|		Arabic Letters	Sound Produced from
8	Tarfiyah	ل	Rounded tip of the tongue touching the base of the

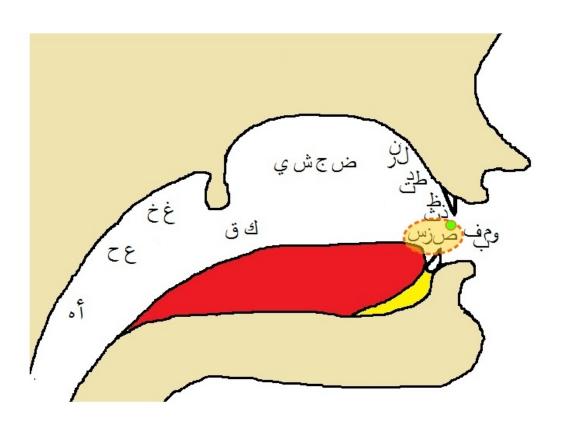|			frontal 8 teeth
9		ن	Rounded tip of the tongue touching the base of the frontal 6 teeth
10		ر	Rounded tip of the tongue and some portion near it touching the base of the frontal 4 teeth

		Arabic Letters	Sound Produced from
11	Nit-eeyah	ت د ط	Tip of the tongue touching the base of the front 2 teeth

		Arabic Letters	Sound Produced from
12	Lisaveyah	ظ ذ ث	Tip of the tongue touching the tip of the frontal 2 teeth

		Arabic Letters	**Sound Produced from**
13		ص ز س	Tip of the tongue comes between the front top and bottom teeth

		Arabic Letters	Sound Produced from
14	Ghunna	م ن	While pronouncing the ending sound of م or ن , bring the vibration to the nose

		Arabic Letters	Sound Produced from
15		ف	Tip of the two upper jaw teeth touches the inner part of the lower lip
16		ب	Inner part of the both lips touch each other
		م	Outer part of both lips touch each other
		و	Rounding both lips and not closing the mouth

		Arabic Letters	Sound Produced from
17		بَا بوُ بِی	Mouth empty space while speaking words like بَا بوُ بِی