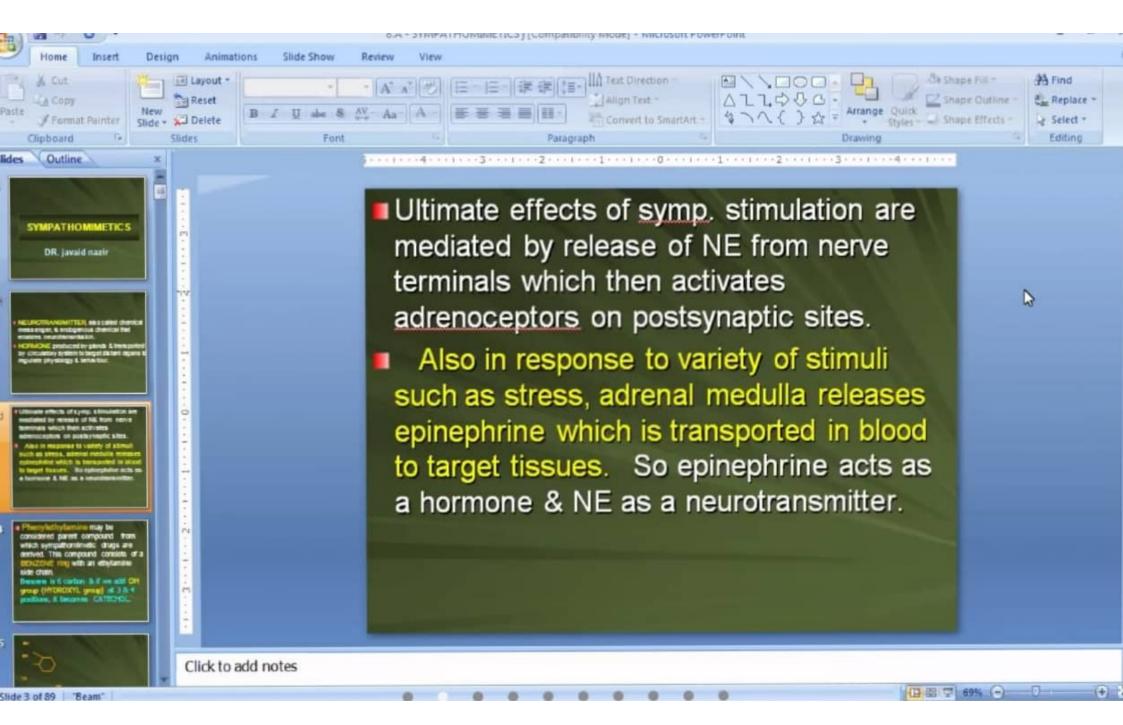
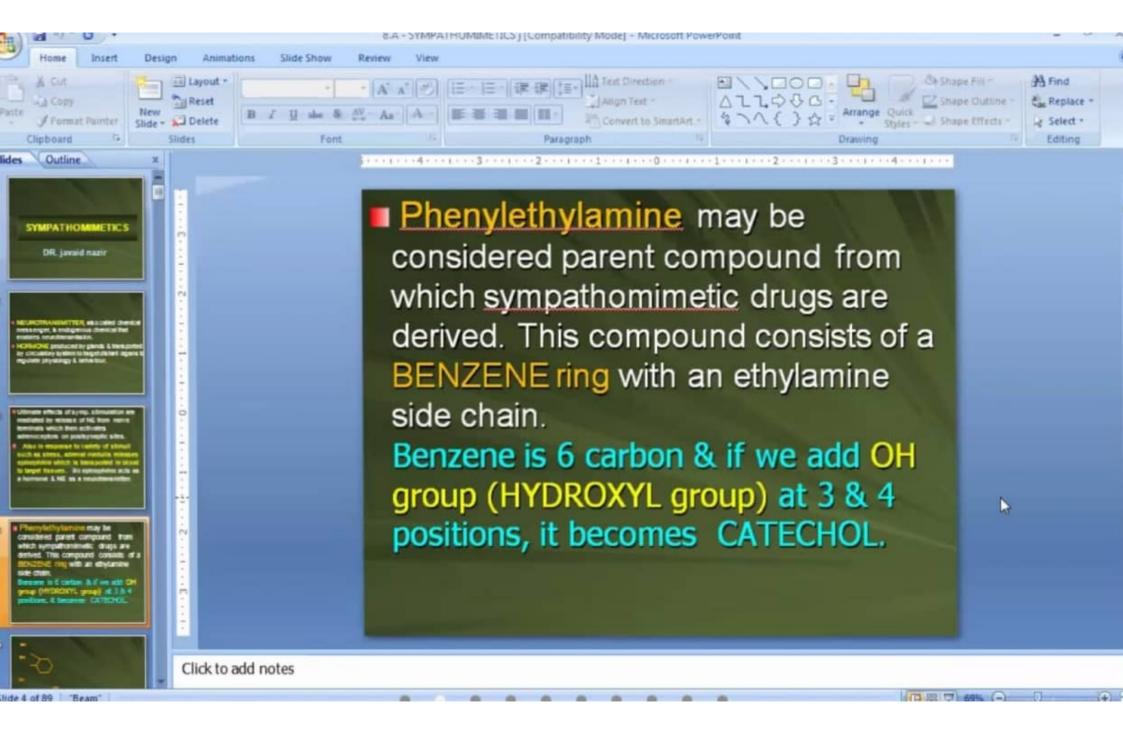
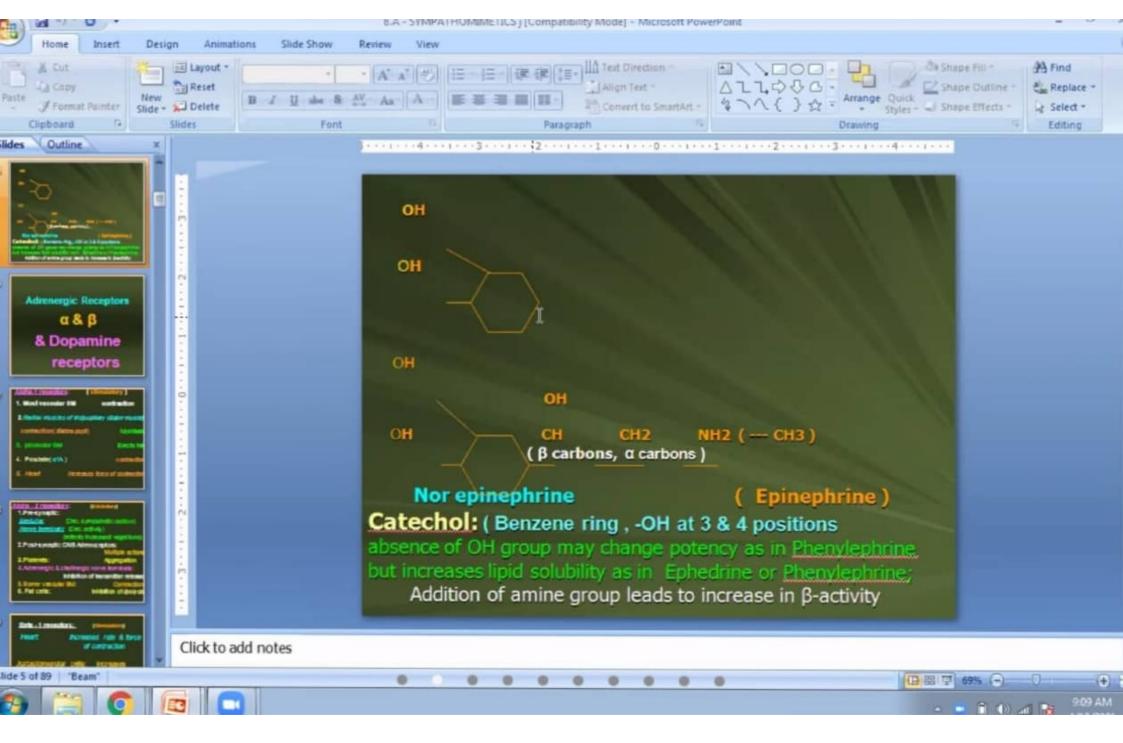
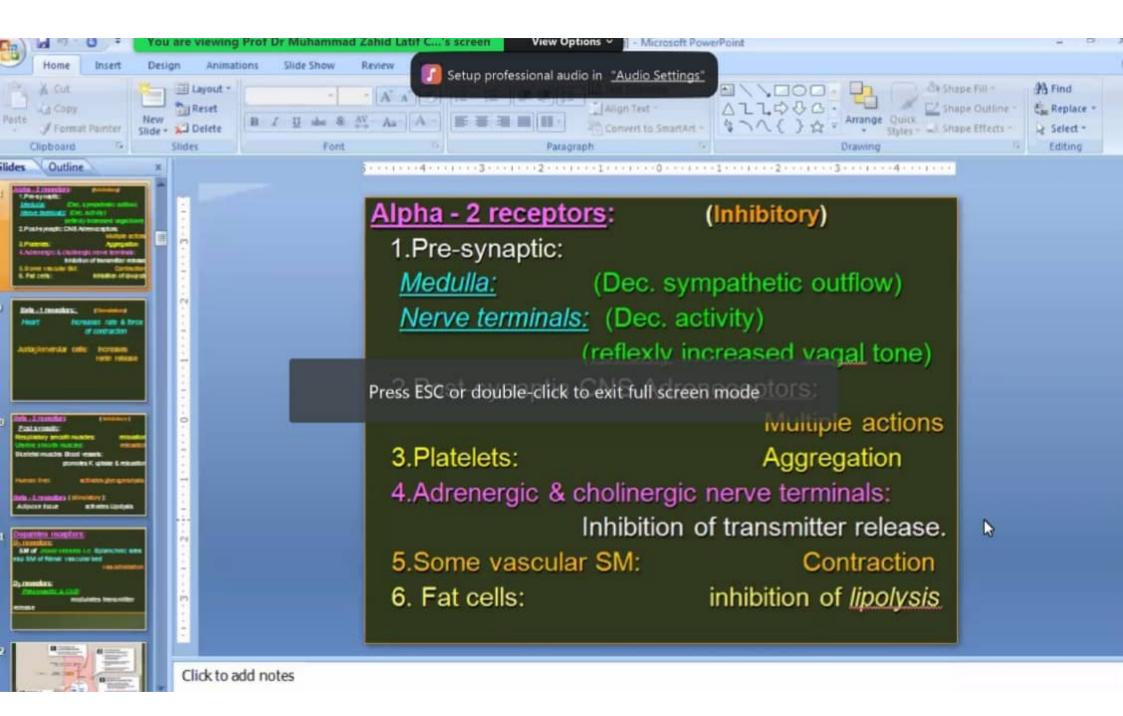


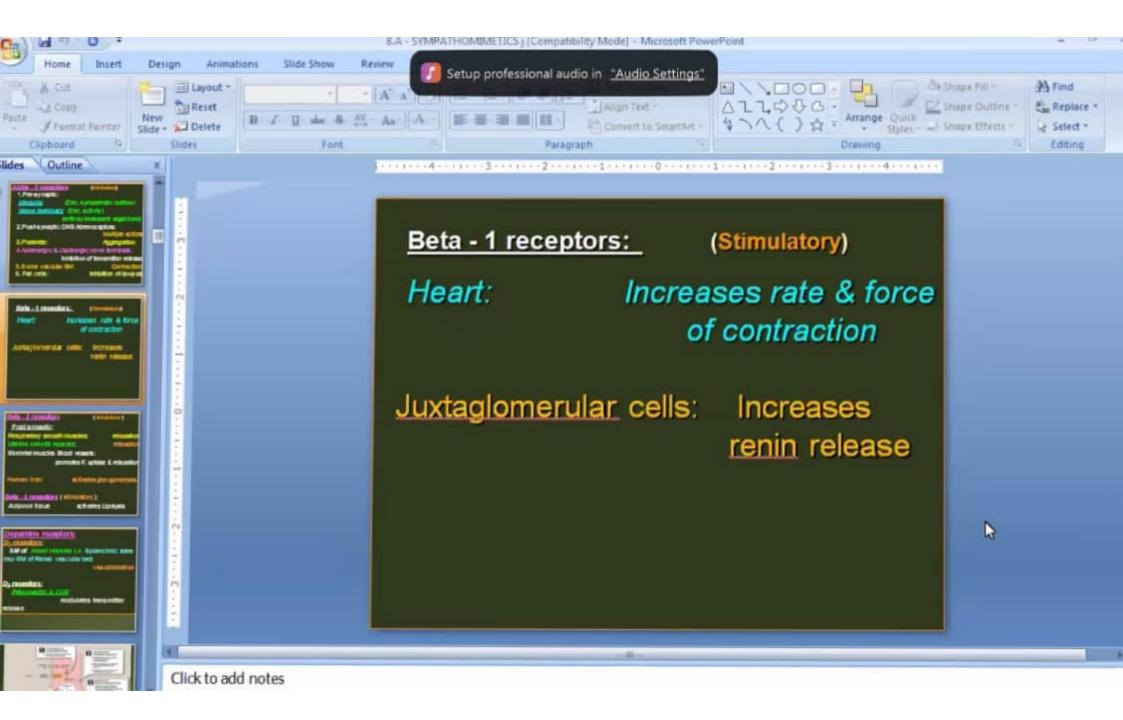
mad Zahid Latif Community Medicine / Medical Education Department's screen

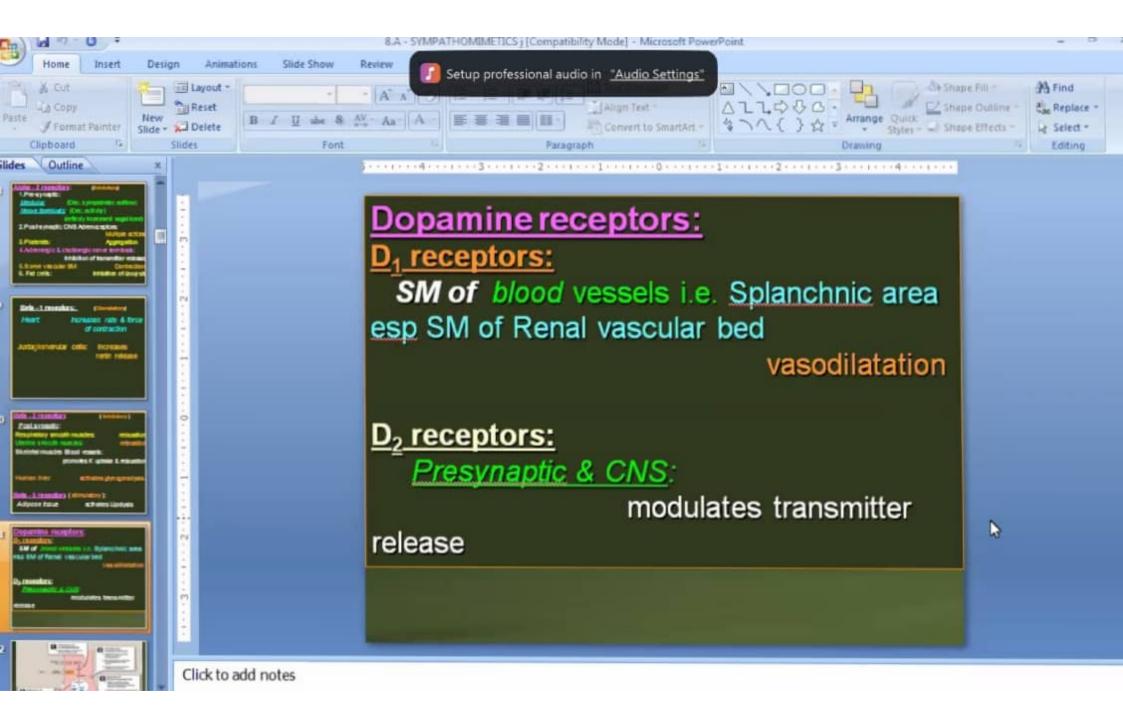


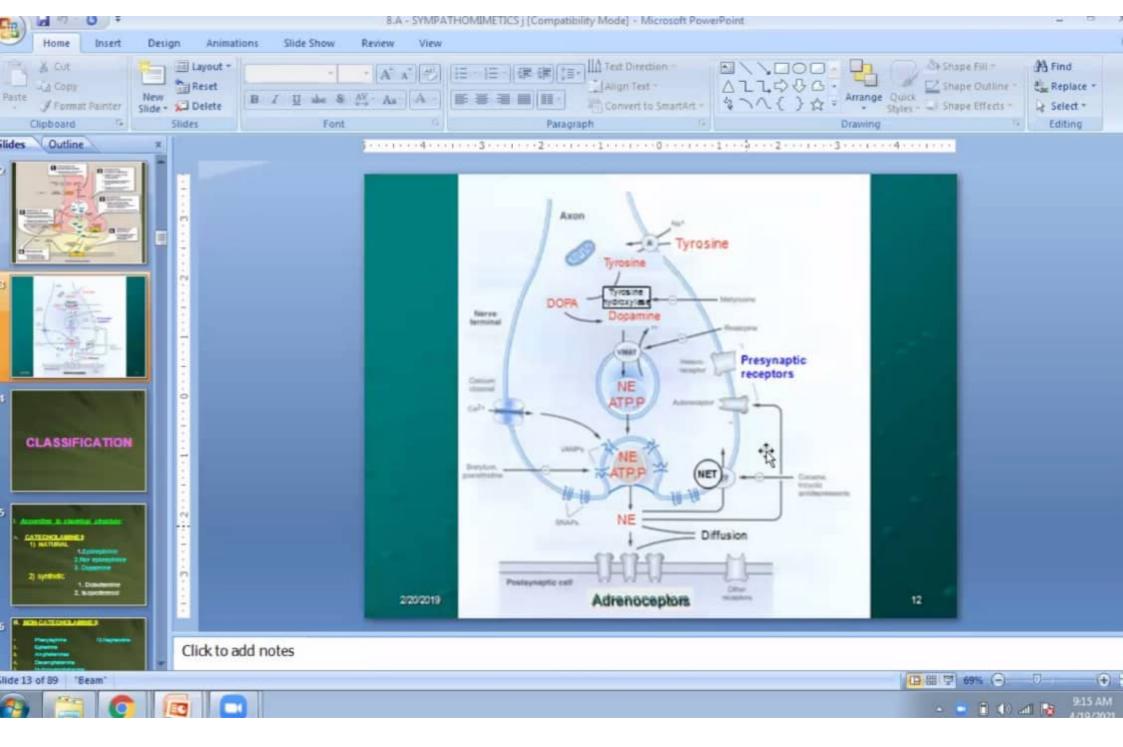


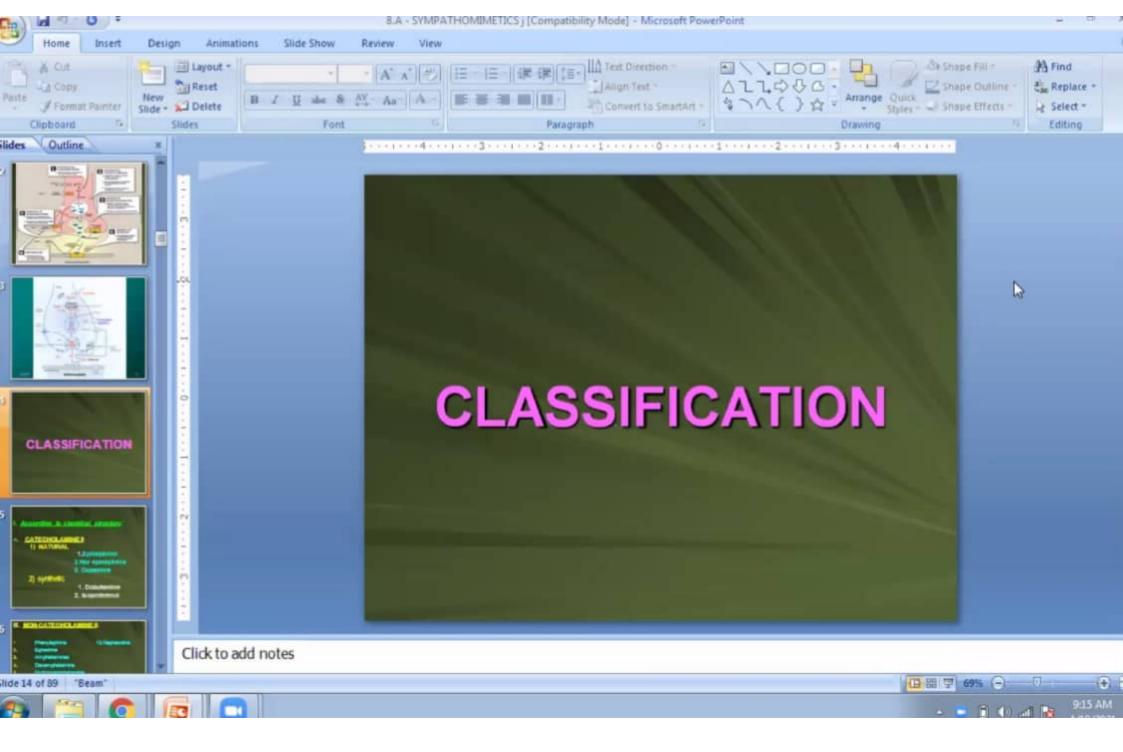












I. According to chemical structure:

- A. <u>CATECHOLAMINES</u>

 1) NATURAL
 - 1.Epinephrine
 - 2. Nor epinephrine
 - 3. Dopamine
 - 2) synthetic
- 1. Dobutamine
- Isoproterenol

B. NON-CATECHOLAMINES: Phenylephrine 12.Naphazoline **Ephedrine** 2. **Amphetamines** 3. Dexamphetamine 4. Hydroxyamphetamine 5. Methylamphetamine 6. Metaproterenol 7. Salbutamol 8. Terbutaline 9. Methoxamine 10.

Phenylpropanolamine

11.

- Catecholamines: These compounds share the following properties:
- 1. High potency
- 2. Rapid inactivation: Catecholamines are metabolized by COMT postsynaptically & by MAO intraneuronally as well as by COMT & MAO in the gut wall & by MAO in the liver. Thus, catecholamines have only a brief period of action when given parenterally & they are inactivated (ineffective) when administered orally. Short T_{1/2}.
- 3. Poor penetration into the CNS:
 Catecholamines are polar & therefore do not

