## Poster Abstract:

Novice programmers are facing several difficulties that have been identified and discussed in the literature, such as understanding programming syntax, understanding code structure, and learning how to dividing functionality into procedures. Some novice programmers who face difficulties need extended practical resources that facilitate the learning process, and these identified difficulties can often be overcome by practicing programming in helpful online programming learning platforms that support effective learning approaches. In this research, two studies are being conducted. First, we review the literature to identify the programming learning challenges and explore possible solutions that could support richer and more engaging programming learning. In the second study, we examine current online coding tutorials systems to determine if they provide the appropriate solutions for the identified problems in learning programming literature.