UCS 2201 Fundamentals and Practice of Software Development
T1: Test on A2 – Batch 2

Batch 2021-2024

Academic Year 2021-2022 Even   Dr. R. Kanchana & Dr. J. Suresh

Learning Outcome: You will be able to implement the following basic features of C

- I/O statements (*getchar/putchar, scanf/printf*)
- operators and expressions (*arithmetic / unary / conditional / relational / logical*)
- conditional constructs (*if / nested if, switch*)
- looping constructs (*for, while, do-while*)

You will be able to adapt to the following best practices

- Design before coding
- Self-documented code
- Select appropriate programming construct for conditions and iterations
- Adequate test cases to verify the correctness
- Develop code incrementally

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Solve the following problems by implementing in C.   **(CO6, K3, 1.3.1, 1.4.1, 2.1.2, 2.1.3, 4.2.1, 14.2.1, 14.2.2)**

Design a calculator to perform the operations namely addition, subtraction, multiplication, and division

Provide Menu options like 1,2,3,4 for the user to select the operation and then the input operands (Version 1)

Provide operation options a, s, m, d for the user to choose, after getting two numbers of type float) (Use *case*) (Version 2)

Add one more operation – square root of a number

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