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MODULE: Bachelors \{Software Engineering\}
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SUBJECT: Programming Fundamentals (Lab)
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## Question \#1

Read A, B and C representing the three sides of a triangle. Write a program to find out its area the formula is given below:

$$
\begin{gathered}
\text { Area }=\sqrt{\mathbf{S}(S-A)(S-B)(S-C)} \\
\text { Where } S=\frac{A+B+C}{2}
\end{gathered}
$$




Question \#2
Write a C++ program to get marks obtained by a student in percentage $P$ and then find the division according to the below rules:

- If Percentage $\mathbf{P}$ is above or equal to $\mathbf{6 0}$ then display.............. $\mathbf{1}^{\text {st }}$ Division.
- If Percentage $P$ is between 50 \& 59 then display..................... $2^{\text {nd }}$ Division.
- If Percentage $\mathbf{P}$ is between 40 \& 49 then display................... $3^{\text {rd }}$ Division.
- If Percentage $\mathbf{P}$ is less than 40 then display .Fail.


## ANSWER:





## Question \#3

Write a C++ program to convert 5 feet to the equivalent number of (a) Inches (b) Yards. Where 1 foot $=12$ Inches and 1 yard=3 feet)

## ANSWER:



## Question \#4

Write a C++ program to find the sum of the following series:

## ANSWER:



## Question\# 5

Write a C++ program to input Hours Worked and Hour Rate of an Employee. Calculate and display the Gross-Pay, Tax and Net-Pay; where

> Gross-Pay=Hour-Worked* Hour-Rate
> Tax=10\% of Gross-Pay
> Net-Pay=Gross-Pay - Tax

## ANSWER:



