**Question No.1:**

Write macro definition with arguments for calculation of simple interests.

**Question No.2:**

Write macro definition with arguments to obtain the biggest of three numbers.

**Question No.3:**

Write macro definition with arguments to square root of number given by user.

[Hint: Use Sqrt( ) function of math.h in macros]

**Question No.4:**

Write macro definition with arguments to compute Heron’s formula of sides of triangle.

[Hint: Use Sqrt( ) function of math.h in macros]

**Question No.5:**

Write macro definition with arguments to compute the percentage of students if five subjects marks are entered by user assume the total marks of five subjects is 500.

**Question No.6:**

Write macro definition with arguments to compute the quadratic formula.

[Hint: ]

**Question No.7:**

Write macro definition with arguments to compute the factorial of a given number.

[Hint: use macros function inside for loop]

**Question No.8:**

If employee has a basic salary is greater than 10000 and his experience is greater than 5 years allow him bonus 20% of his basic salary, and if his experience is less than 5 years allow him bonus 10% of his basic salary and if his basic salary is less than 10000 no bonus is allowed . Calculate gross salary.

[Hint: Use #if and #else or nested #if macros]

**Question No.9:**

If marks of five subjects are input, calculate percentage and assign grades on following conditions:

* If percentage of student is greater than 80 assign him “A-1” grade,
* If greater than 70 assign him “A” grade.
* If greater than 60 assign him “B” grade.
* If greater than 50 assign him “C” grade.
* If greater than 40 assign him “D” grade
* If less than 40 declare him Fail.

[Hint: Use #if and #elif macros]

**Question No.10:**

An electric bulb circuit has following conditions on which it operates:

|  |  |  |  |
| --- | --- | --- | --- |
| A | B | A AND B | STATE |
| 0 | 0 | 0 | OFF |
| 0 | 1 | 0 | OFF |
| 1 | 0 | 0 | OFF |
| 1 | 1 | 1 | ON |

[Hint: Use **AND** macros instead of **&&** operator in macro function implementation]