

اور اگر وہ ایمان لاتے اور پرہیز گاری کرتے تو خدا کے ہاں سے بہت اچھا صلہ ملتا۔ اے کاش، وہ اس سے واقف ہوتے۔ البقرة آیت ۱۰۳

The difference between stupidity and genius is that genius has its limits. Albert Einstein

Homework 03

[String and Math Functions, General Programming Practice]

Note1: Output is made clear by showing boxes so that spaces can be counted.

Note2: Don't do hard coding in task use formulas and functions to generalize your programs.

Note3: In task 7 output on right hand side is of two different runs of the program

Task 1:

Complete code written inside main function to show output given on right hand side? String space=" "; System.out.println("*"); System.out.println("*"+space.substring(0,0)+"*");	<pre> * * * * * * * * * * * * * * * </pre>
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Task 2:

Complete code written inside main function to show output given on right hand side? String space=" "; System.out.println("*"); System.out.println("*"+space.substring(0,0)+"*");	<pre> * * * * * * * * * * * </pre>
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Use Random Function for Next 3 Tasks

Task 3

Print 5 real values between 200 and 300

Task 4

Print 5 integer values between -200 & -100

Task 5

Print 5 capital alphabets

Help: Capital alphabets have ASCII code from 65 to 90. Type cast in char to show alphabet like `System.out.println((char)65);` //will show **A** as output

Task 6

Write a program to take full name as input from user using **nextLine** method of Scanner class. Full name includes first name & last name like "Muhammad Hamid". Take two String variables **firstName** & **lastName**. Assign first part of name in firstName & second part in lastName. Finally display them in separate line. Don't hard code use appropriate functions from String class.

Task 7:

Write program to calculate quadratic roots using formula $\frac{-b+\sqrt{b^2-4ac}}{2a}$ and $\frac{-b-\sqrt{b^2-4ac}}{2a}$. Take a, b, c as double values from user, calculate x1, x2 roots and display answer. See the sample run on right hand side.	<pre> A:2 B:5 C:3 X1:-1.0 X2:-1.5 A:4 B:9 C:5 X1:-1.0 X2:-1.25 </pre>
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