

Homework-04

1. Write a program in which you take a primitive data type and Store a value in that data type then find the value Increment and Decrement. Second, write a word using a String and express the divided Character of that word.
2. Create a java program that will show you how to string concatenation is achieved using a string buffer in java
3. Write a program that has 6 String names.
 - Now find out the length of the First String name and Second String name.
 - Create a method with the Third and fourth Strings Checks if there is anything in the string. If the Java string is empty, it returns otherwise true.
 - Convert characters from uppercase to lowercase using String five
 - replacing String six old characters or CharSequence to new characters. Such As: Hey what's up now you want to replace (**p and y**) so your answer will be Hep What's uy.
4. (Find the character of an ASCII code) Write a program that receives an ASCII code (an integer between 0 and 127) and displays its character.

input

The input contains a value of integer number that is the variable ASCII. and show you a message "Please Enter an ASCII code:" for input the value ASCII.

Output

Present the message "The Character for the ASCII code yyy is y". don't forget to print the end of line after the result.

Input Samples	Output Samples
Enter an ASCII code: 35	The Character for the ASCII code 35 is #

Enter an ASCII code: 55	The Character for the ASCII code 55 is 7
Enter an ASCII code: 117	The Character for the ASCII code 117 is u

5. Write a program that allows you to find the value of Minimum(Min) , Maximum(Max) Absolute(abs) value and find the Round number.

The concept:

Min/max: The min and max method return the min and max number of two numbers.

Abs : Returns the absolute value of the argument

Random: this method generates a random double value greater then or equal 0.0 and less than 1.0($0 \leq \text{random} < 1.0$) you can use it to write a simple expression to generate random numbers in any range

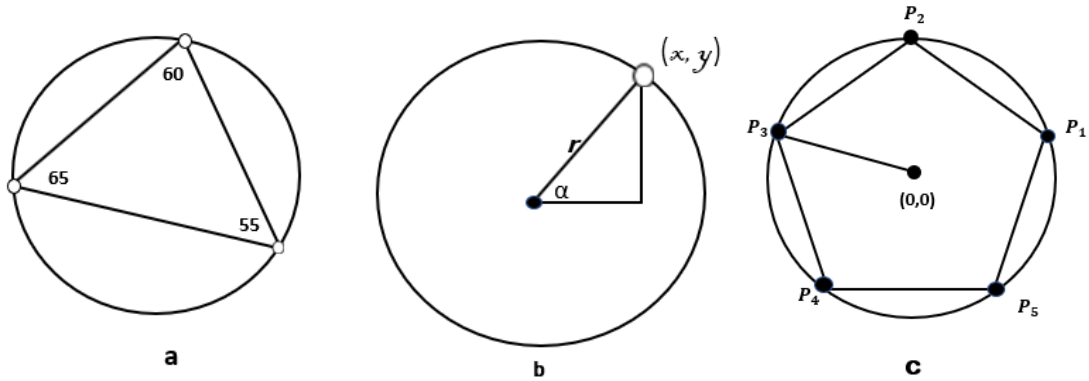
Here is Sample output:

Minimum out of '30' and '-25' = -25
Maximum out of '30' and '-25' = 30
Absolute value of i1: 15
Absolute value of i2: 30
Round off for d1: 101
Round off for d2: 0

6. Write a program that generate three random points on a circle centered(0,0) with radius 40 and display three angles in a triangle formed by these tree points as shown in Figure1.0a.

Concept

Generate a random angle a in radians between 0 and 2π , as shown in Figure 1.0b and the point determined by this angle is $(r \cdot \cos(a), r \cdot \sin(a))$.



- (a) A triangle is formed from three random points on the circle
 (b) A random point on the circle can be generated using a random angle
 (c) A pentagon is centered at $(0,0)$ with one point at the 0 o'clock position

**** NOTICE ****

- test your code by sample input.
- your code won't be same of others if it is then both of your assignment will be declined.
- use comment almost every line of code.
- submit it on time .
- your code will have in one project named Assignment_04, make it zip and send it to akabillah4420@gmail.com don't forget to write the Student ID and name in your Folder "Assignment_04" in the mail. And be sure that your code has received by replying **OKAY**.
- Be sincere to obey all of the rules otherwise maybe you will get (LOW SCORE.)

Deadline: 10 April 12:00 am BD time and 2:00 pm china time.

Happy Coding