

Description for Minor Project

Question-2

Step 1 :- Perform the Main Class .

Step 2 :- Input a Decimal Form Number .

Step 3 :- Input the Base which you want to Perform.

Step 4 :- Perform a String Result in method of `convertToAnyBase(decimalNumber, targetBase)`.

Step 5 :- Print the new value (`decimalNumber + " in base 10 is equivalent to " + result + " in base " + targetBase`) .

Step 6 :- Close the Bracket of Main Class .

Step 7 :- Perform a Method of String `convertToAnyBase(int n, int b)` .

Step 8 :- Now Perform a if Statement with a condition (`b < 2 || b > 36`) , and throw new `IllegalArgumentException("Base must be between 2 and 36")` .

Step 9 :- Create a object `StringBuilder result = new StringBuilder()` .

Step 10 :- Now Perform a if Statement with Condition (`n == 0`) .

Step 11 :- Run a Loop of While with condition (`n > 0`) .

Step 12 :- Inside the Loop Perform remainder break the number in digit .

Step 13 :- Perform a character digit and Perform (`remainder < 10 ? remainder + '0' : remainder - 10 + 'A'`) with typecasting of (`char`) .

Step 14 :- Perform `result.insert(0, digit)`;

Step 15 :- divide the Number by base .

Step 16 :- Close the While Loop .

Step 17 :- return the result with `result.toString()` .

Step 18 :- Close the public static String `convertToAnyBase` Bracket .

Step 19 :- Close the Class bracket .