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| Student Name: | Samuel Moses |
| Total Points (20 pts) |  |
| **Due: February 10, 2025 at 11:59PM** | |

**Project: Phone Keypads**

Object Oriented Programming and Data Structures

CSET 1200 – 001

Problem Description:

The international standard letter/number mapping found on the telephone is shown below:

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| |  |  |  | | --- | --- | --- | | 1 | 2  ABC | 3  DEF | | 4  GHI | 5  JKL | 6  MNO | | 7  PQRS | 8  TUV | 9  WXYZ | |  | 0 |  | |

Write a program that reads a letter and displays its corresponding digit.

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| Analysis: |
| Convert a given alphabetical character to its corresponding number. |

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| Design: |
| Read input from user. Match given character to desired output. Report resulting number. |
| Coding: (Copy and Paste Source Code here. Format your code using Courier 10pts) |
| import java.util.Scanner;  public class Main {  public static void main(String[] args) {  System.*out*.println("Enter a alphabetical character to convert: ");  Scanner scnr = new Scanner(System.*in*);  char input = scnr.next().charAt(0);  int n = 0;  switch (Character.*toUpperCase*(input)) {  case 'A': case 'B': case 'C':  n = 2;  break;  case 'D': case 'E': case 'F' :  n = 3;  break;  case 'G': case 'H': case 'I':  n = 4;  break;  case 'J': case 'K': case 'L':  n = 5;  break;  case 'M': case 'N': case 'O':  n = 6;  break;  case 'P': case 'Q': case 'R': case 'S':  n = 7;  break;  case 'T': case 'U': case 'V':  n = 8;  break;  case 'W': case 'X': case 'Y': case 'Z':  n = 9;  break;  default:  System.*out*.println("Invalid character");  System.*exit*(1);  }  System.*out*.println(n);  } } |

Submit the following items:

1. Compile and run program and submit the necessary code in the coding section. If there are issues, we may need to have you submit your working code, so please don’t delete.