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| Homework : \_\_6A\_\_\_\_  //Christopher Badolato CH432391  //Assignment 6A  //11/8/2018  //ENC3211  //Create a union print out the value as, char, short, int, long.  //for each type we print the value of each type as well as each type in hex.  union integer{  char c;  short s;  int i;  long b;  };  int main()  {  //initialize our union  union integer unionValue;  //grab or first char and store it on our union.  //it will store the same char in each position as different types.  printf("Enter data type char: ");  scanf("%c", &unionValue.c);  //Print the types of the entered char.  printf("\nBreak down of elements in the union\n");  printf("char %c\n", unionValue.c);  printf("short:%hd\n", unionValue.s);  printf("int %d\n", unionValue.i);  printf("long %ld\n", unionValue.b);  //print the hex of each type.  printf("\nBreak down in hex\n");  printf("char %x\n", unionValue.c);  printf("short:%x\n", unionValue.s);  printf("int %x\n", unionValue.i);  printf("long %x\n", unionValue.b);  //do it for a short  printf("\nEnter data type short: ");  scanf("%hd", &unionValue.s);  printf("\nBreak down of elements in the union\n");  printf("%hd shown as a char: %c\n", unionValue.c);  printf("%hd shown as a short: %hd\n", unionValue.s);  printf("%hd shown as an int: %d\n", unionValue.i);  printf("%hd shown as a long: %ld\n", unionValue.b);  //hex  printf("\nBreak down in hex\n");  printf("char %x\n", unionValue.c);  printf("short:%x\n", unionValue.s);  printf("int %x\n", unionValue.i);  printf("long %x\n", unionValue.b);  //do it for an integer  printf("\nEnter data type integer: ");  scanf("%d", &unionValue.i);  printf("\nBreak down of elements in the union\n");  printf("char %c\n", unionValue.c);  printf("short %hd\n", unionValue.s);  printf("int %d\n", unionValue.i);  printf("long:%ld\n", unionValue.b);  //hex  printf("\nBreak down in hex\n");  printf("char %x\n", unionValue.c);  printf("short:%x\n", unionValue.s);  printf("int %x\n", unionValue.i);  printf("long %x\n", unionValue.b);  //do it for a long  printf("\nEnter a long: ");  scanf("%ld", &unionValue.b);  printf("\nBreak down of elements in the union\n");  printf("%char: %c\n", unionValue.c);  printf("short: %hd\n", unionValue.s);  printf("%int: %d\n", unionValue.i);  printf("%long: %ld\n", unionValue.b);  //hex  printf("\nBreak down in hex\n");  printf("char %x\n", unionValue.c);  printf("short:%x\n", unionValue.s);  printf("int %x\n", unionValue.i);  printf("long %x\n", unionValue.b);  return 0;  } |
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| Output:  Original Text:  The quick Brown Fox jumps over the Lazy Dog and the !##! LAZY DOG is still sleeping  Modified Text:  the quick brown fox jumps over the lazy dog and the lazy dog is still sleeping  Letter Count  a 3  b 1  c 1  d 3  e 6  f 1  g 3  h 3  i 4  j 1  k 1  l 5  m 1  n 3  o 5  p 2  q 1  r 2  s 4  t 4  u 2  v 1  w 1  x 1  y 2  z 2  Word Length Occurrences  0 0  1 0  2 1  3 7  4 4  5 4  6 0  7 0  8 1  Process returned 0 (0x0) execution time : 0.054 s  Press any key to continue. |