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| Homework : \_\_\_2.A\_\_\_\_\_\_  2.A Source code  //Christopher Badolato  //ENC 3211 03  //Ch432391  //9/27/18  #include<stdio.h>  void main(){  //variable declarations.  int currentValue, headerValue, total, i = 1;  //get number of values to be entered from user.  printf("Please enter number of values to be entered: ");  scanf("%d", &headerValue);  //ask for our first value so we can set the total.  if(headerValue != 0){  printf("Please enter number #1: ");  scanf("%d", &currentValue);  total = currentValue;  //add the values entered by the user until we reach that  //headerValue they originally entered  //currentValue is the value entered each loop by the user.  for(i=2; i<=headerValue; i++){  printf("Please enter number #%d: ", i);  scanf("%d", &currentValue);  total = total + currentValue;  }  //finally print the total.  printf("The total number is %d ", total);  }  return 0;  } |
| Snapshot of the source code in the editor (optional) |
| 2.A Program output  Please enter number of values to be entered: 5  Please enter number #1: 100  Please enter number #2: 200  Please enter number #3: 300  Please enter number #4: 400  Please enter number #5: 500  The total number is 1500  Process returned 25 (0x19) execution time : 121.885 s  Press any key to continue.  Please enter number of values to be entered: 7  Please enter number #1: 100  Please enter number #2: 200  Please enter number #3: 300  Please enter number #4: 400  Please enter number #5: 500  Please enter number #6: 600  Please enter number #7: 700  The total number is 2800  Process returned 25 (0x19) execution time : 11.786 s  Press any key to continue. |
| Homework : \_\_2.B\_\_\_\_\_\_\_  2.B Source Code  //Christopher Badolato  //ENC 3211 03  //Ch432391  //9/27/18  #include<stdio.h>  void main(){  int factorial = 0, nextValue, factorialSolved;  //while -1 is not entered by the user we can keep calculating factorials  while(factorial != -1){  printf("Please enter a number between 1 and 10 for factorial calculation(-1 to end): ");  scanf("%d", &factorial);  //start our factorial calculation at the first entered value  factorialSolved = factorial;  //starting at the next value below the first one entered we will want to  //then start multiplying. We then decrement  //the "nextValue" we multiply our final "factorialSolved" value.  for(nextValue = factorial - 1; nextValue > 0; nextValue--){  factorialSolved = factorialSolved \* nextValue;  }  printf("factorial for %d is %d\n\n", factorial, factorialSolved);  }  return 0;  } |
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| 2.B Program output  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 4  factorial for 4 is 24  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 6  factorial for 6 is 720  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 8  factorial for 8 is 40320  Please enter a number between 1 and 10 for factorial calculation(-1 to end): -1  factorial for -1 is -1  Process returned -1 (0xFFFFFFFF) execution time : 17.497 s  Press any key to continue.  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 10  factorial for 10 is 3628800  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 14  factorial for 14 is 1278945280  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 8  factorial for 8 is 40320  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 10  factorial for 10 is 3628800  Please enter a number between 1 and 10 for factorial calculation(-1 to end): 5  factorial for 5 is 120  Please enter a number between 1 and 10 for factorial calculation(-1 to end): -1  factorial for -1 is -1  Process returned -1 (0xFFFFFFFF) execution time : 17.988 s  Press any key to continue. |
| 2C  Source Code  //Christopher Badolato  //ENC 3211 03  //Ch432391  //9/27/18  #include<stdio.h>  void main(){  //Initalize variables for each product.  int productNumber;  int numberSold, product1Sold = 0, product2Sold = 0, product3Sold = 0, product4Sold = 0, product5Sold = 0;  float product1 = 0,product2 = 0,product3 = 0,product4 = 0,product5 = 0, total = 0;  //To start,we need to get the first product entered this allows the second switch to work with the while loop.  //this way we can continue to loop until -1 is entered we will just jump to the end of the code and  //print the totals.  printf("Please enter the product number between 1 and 5. -1 to end: ");  scanf("%d", &productNumber);  switch(productNumber){  //Each case matches with corresponding product numbers entered by the user.  //each one will get the number of each product sold and add it to the total number of each product  //we need to multiply our number sold by the price of the selected item. Then  //add that to the total products sold(product1) value.  //we do this for each product.  case 1:  //get number sold.  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  //add to the number of products sold.  product1Sold = product1Sold + numberSold;  //calculate the total price so far for the current product.  product1 = product1 + (numberSold \* 2.98);  break;  case 2:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product2Sold = product2Sold + numberSold;  product2 = product2 + (numberSold \* 4.50);  break;  case 3:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product3Sold = product3Sold + numberSold;  product3 = product3 + (numberSold \* 9.98);  break;  case 4:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product4Sold = product4Sold + numberSold;  product4 = product4 + (numberSold \* 4.49);  break;  case 5:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product5Sold = product5Sold + numberSold;  product5 = product5 + (numberSold \* 6.87);  break;  default:  break;  }  //now after we've got the first value if they didn't type -1 to quit we will follow through  //with the rest of the code. Which is the same as above except if our "productNumber" is -1  //we will stop collecting products entered by the user and print the totals.  while(productNumber != -1){  printf("Please enter the product number between 1 and 5. -1 to end: ");  scanf("%d", &productNumber);  switch(productNumber){  case 1:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product1Sold = product1Sold + numberSold;  product1 = product1 + (numberSold \* 2.98);  break;  case 2:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product2Sold = product2Sold + numberSold;  product2 = product2 + (numberSold \* 4.50);  break;  case 3:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product3Sold = product3Sold + numberSold;  product3 = product3 + (numberSold \* 9.98);  break;  case 4:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product4Sold = product4Sold + numberSold;  product4 = product4 + (numberSold \* 4.49);  break;  case 5:  printf("Please enter quantity sold: ");  scanf("%d", &numberSold);  product5Sold = product5Sold + numberSold;  product5 = product5 + (numberSold \* 6.87);  break;  default:  break;  }  }  //finally we will calculate the total of all the final product values.  //and print them out for the user see.  total = total + product1 + product2 + product3 + product4 + product5;  printf("\nProduct Qty Sales");  printf("\nProduct 1: %d %.2f ", product1Sold, product1);  printf("\nProduct 2: %d %.2f ", product2Sold, product2);  printf("\nProduct 3: %d %.2f ", product3Sold, product3);  printf("\nProduct 4: %d %.2f ", product4Sold, product4);  printf("\nProduct 5: %d %.2f ", product5Sold, product5);  printf("\n\nTotal: %.2f ", total);  return 0; |
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| 2C  Outputs  Please enter the product number between 1 and 5. -1 to end: 1  Please enter quantity sold: 2  Please enter the product number between 1 and 5. -1 to end: 2  Please enter quantity sold: 3  Please enter the product number between 1 and 5. -1 to end: 3  Please enter quantity sold: 4  Please enter the product number between 1 and 5. -1 to end: 4  Please enter quantity sold: 5  Please enter the product number between 1 and 5. -1 to end: 5  Please enter quantity sold: 6  Please enter the product number between 1 and 5. -1 to end: 1  Please enter quantity sold: 3  Please enter the product number between 1 and 5. -1 to end: 2  Please enter quantity sold: 4  Please enter the product number between 1 and 5. -1 to end: 3  Please enter quantity sold: 5  Please enter the product number between 1 and 5. -1 to end: 4  Please enter quantity sold: 6  Please enter the product number between 1 and 5. -1 to end: 5  Please enter quantity sold: 7  Please enter the product number between 1 and 5. -1 to end: -1  Product Qty Sales  Product 1: 5 14.90  Product 2: 7 31.50  Product 3: 9 89.82  Product 4: 11 49.39  Product 5: 13 89.31  Total: 274.92  Process returned 16 (0x10) execution time : 29.655 s  Press any key to continue.  Please enter the product number between 1 and 5. -1 to end: 5  Please enter quantity sold: 5  Please enter the product number between 1 and 5. -1 to end: 4  Please enter quantity sold: 4  Please enter the product number between 1 and 5. -1 to end: 3  Please enter quantity sold: 3  Please enter the product number between 1 and 5. -1 to end: 2  Please enter quantity sold: 2  Please enter the product number between 1 and 5. -1 to end: 1  Please enter quantity sold: 1  Please enter the product number between 1 and 5. -1 to end: -1  Product Qty Sales  Product 1: 1 2.98  Product 2: 2 9.00  Product 3: 3 29.94  Product 4: 4 17.96  Product 5: 5 34.35  Total: 94.23  Process returned 15 (0xF) execution time : 11.587 s  Press any key to continue. |