Mary Nicolette Parcon BSCS CMSC 21-1

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> Users > mjpar > Documents > UP > SEM 2 > CMSC 21-1 > Lecture3 > C as1.c >
             #include <stdbool.h>
             int main(void) {
                /* Initializing data types for variables.
                int age = 13; bool teenager;
                 teenager = (age >= 13 && age <= 19);
                     expressionTwo = FALSE*/
                 printf("%s", teenager ? "You are a teenager." : "You are not a teenager.");
       PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
       PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3> cd "c:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3\"; if ($?) { gcc as1.
       c -o as1 }; if ($?) { .\as1 }
       You are a teenager.
       PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3>
1.
      C: > Users > mjpar > Documents > UP > SEM 2 > CMSC 21-1 > Lecture3 > C as1.c > ...
         1 #include <stdio.h>
             #include <stdbool.h>
             int main(void) {
                 int age = 5; bool teenager;
                  teenager = (age >= 13 && age <= 19);
                  printf("%s", teenager ? "You are a teenager." : "You are not a teenager.");
       PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
       PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3> cd "c:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3\"; if ($?) {
       c -o as1 }; if ($?) { .\as1 }
       You are not a teenager.
       PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3>
```

```
C: > Users > mjpar > Documents > UP > SEM 2 > CMSC 21-1 > Lecture3 > € as2.c > ...
      #include <stdio.h>
      int main(void) {
          int number;
          while (1) {
              printf("\nEnter a two-digit number: ");
              scanf("%d", &number);
              if (number < 10 || number > 99) { // Input validation that checks if number is < 10 or > 99.
                  printf("Input must be a positive two-digit integer. Try again.\n");
              else { // If valid, break.
                  break;
          printf("%d in written form: ", number);
          switch (number / 10) { // Switch-cases for tenths digit.
              case 1:
                   switch (number % 10) {
                       case 0:
                           printf("ten");
                           break;
                       case 1:
                           printf("eleven");
                           break;
                       case 2:
                           printf("twelve");
                           break;
                           printf("thirteen");
                           break;
```

2.

```
printf("fourteen");
        break;
        printf("fifteen");
        break;
    case 6:
        printf("sixteen");
        break;
        printf("seventeen");
       break;
    case 8:
        printf("eighteen");
       break;
    case 9:
        printf("nineteen");
       break;
return 0;
printf("twenty");
break;
printf("thirty");
break;
printf("forty");
break;
printf("fifty");
break;
```

```
case 6:
       printf("sixty");
       break;
       printf("seventy");
       break;
   case 8:
       printf("eighty");
       break;
   case 9:
      printf("ninety");
      break;
switch (number % 10) { // Switch-cases for ones digit.
   case 1:
       printf("-one");
       break;
   case 2:
       printf("-two");
       break;
   case 3:
       printf("-three");
       break;
   case 4:
       printf("-four");
       break;
   case 5:
       printf("-five");
       break;
   case 6:
       printf("-six");
       break;
```

```
125
126
               case 7:
                   printf("-seven");
127
128
                   break;
129
130
               case 8:
131
                   printf("-eight");
132
                   break;
133
134
               case 9:
                   printf("-nine");
135
136
                   break;
137
138
           return 0;
139
PROBLEMS
          OUTPUT DEBUG CONSOLE
                                  TERMINAL
PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3> cd "c:\Users\mjpar\Documents
c -o as2 }; if ($?) { .\as2 }
Enter a two-digit number: 69
69 in written form: sixty-nine
PS C:\Users\mjpar\Documents\UP\SEM 2\CMSC 21-1\Lecture3>
```