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COP 2220 006
Assignment One
9/10/19
Matthew Acs
1.
/* COP2220 006: Program to define variables
Author: Matthew Acs
Assignment: One
Date: 9/08/2019*/
#include <stdio.h>
#define PI 3.14159
int main()
{
        double radius, area, circumf; /* define radius, area, and circumf as double variables */
        int num circ; /* define num circ as int variable */
        char circ name; /* define circ name as char variable */
        return 0:
}
2.
In the program, after line 7 a=5 and b=2, after line 8 b=5, and after line 9 a=5.
At the end, two 5s will be printed on one line with a space in between, and the program will then
skip a line.
/* COP2220 006: Program to display name
Author: Matthew Acs
Assignment: One
Date: 9/08/2019*/
#include <stdio.h>
int main ()
  char full[12] = {'M', 'a', 't', 't', 'h', 'e', 'w', ' ', 'A', 'c', 's', '\0'}; /* defines full as a string containing
Matthew Acs */
  char first[8] = {'M', 'a', 't', 't', 'h', 'e', 'w', '\0'}; /* defines first as a string containing Matthew */
  char last[4] = {'A', 'c', 's', '\0'}; /* defines last as a string containing Acs */
  printf("%s\n", full ); /* prints full name on one line*/
  printf("%s\n%s\n", first,last); /* prints first name on one line and last name on another*/
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printf("%s ",first); /* prints first name on one line*/

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printf("%s",last); /* prints last name on same line as last */
  return 0;
}
4.
/* COP2220 006: Program to calculate toes
Author: Matthew Acs
Assignment: One
Date: 9/08/2019*/
#include <stdio.h>
int main () {
  int toes; /* define toes as a integer */
  toes = 10; /* set toes to 10 */
  printf("Toes:%d, Toes Times Two:%d, Toes Squared:%d", toes, toes*2, toes*toes); /* print
toes, toes times 2, and toes squared*/
  return 0;
}
/* COP2220 006: Program to change fahrenheit to celsius
Author: Matthew Acs
Assignment: One
Date: 9/08/2019*/
#include <stdio.h>
int main ()
   int fahrenheit; /* define int fahrenheit */
  double celsius; /* define int celsius */
  printf("Insert degrees fahrenheit:"); /* prompt user to input fahrenheit */
  scanf("%d", &fahrenheit); /* take user input and store it in int fahrenheit */
  celsius = 0.5555555*(fahrenheit-32); /* calculate celsius */
  printf("calculating...\n");
  printf("%d degrees fahrenheit = %f degrees celsius", fahrenheit, celsius); /* display output of
calculation */
  return 0;
/* COP2220 006: Program to calculate time to cut grass
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Author: Matthew Acs
Assignment: One
Date: 9/08/2019*/
#include <stdio.h>
#define CUT TIME 2
int
main ()
{
       float y_length, y_width, h_length, h_width, yard_area, house_area, cutting_area,
seconds, minutes; /* defining all variables as floats */
       printf ("What is the width of your yard?(ft)\n"); /* prompting user for input of yard width */
                                     /* taking input from user and storing it in y width */
       scanf ("%f", &y width);
       printf ("What is the length of your yard?(ft)\n"); /* prompting user for input of yard length*/
       scanf ("%f", &y length); /* taking input from user and storing it in y length*/
       printf ("What is the width of your house?(ft)\n"); /* prompting user for input of house width
*/
       scanf ("%f", &h width); /* taking input from user and storing it in h width */
       printf ("What is the length of your house?(ft)\n"); /* prompting user for input of house
length */
       scanf ("%f", &h length); /* taking input from user and storing it in h length */
       yard area = y length * y width;
                                             /* calculating yard area and storing it in yard area
*/
       house area = h length * h width; /* calculating house area and storing it in
house area*/
       cutting area = yard area - house area; /* calculating cutting area and storing it in
cutting area */
       seconds = cutting area / CUT TIME; /* calculating seconds it takes to cut grass*/
       minutes = seconds / 60;
                                      /* calculating minutes it will take to cut grass*/
       printf ("It will take %f minutes to cut the grass on your property.", minutes);/* output result
*/
       return 0;
}
```