C Programming Lab Report

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Subject: Programming in C

name Department: CSE-62

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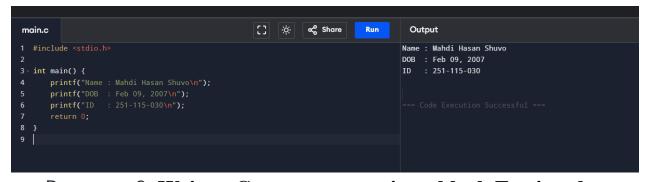
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SI. No Program Title

- 1 Print Name, Date of Birth, and ID
- 2 Print a Block Letter 'E' and Large 'C' Using Hash (#)
- 3 Print Characters in Reverse Order
- 4 Compute Perimeter and Area of a Rectangle
- 5 Compute Perimeter and Area of a Circle
- 6 Convert Days into Years, Weeks and Days
- 7 Calculate Average Value of Two Weighted Items

• Program 1: Write a C program to print your name, date of birth, and ID.

Code:



• Program 2: Write a C program to print a block E using the hash (#), where the E has a

height of seven characters and a width of six and five characters. And also print a

very large 'C'.

Code:

```
[] 🔅
main.c
                                                             ∝ Share
                                                                                    Output
1 #include <stdio.h>
                                                                                  ######
3 - int main() {
                                                                                  #####
      printf("#\n");
                                                                                  ######
                                                                                  ######
                                                                                  ## ##
                                                                                  ## ##
                                                                                  ######
      printf("## ##\n");
      printf("#\n");
      printf("## ##\n");
```

• Program 3: Write a C program to print the following characters in reverse.

Test Characters: 'X', 'M', 'L'

Code:

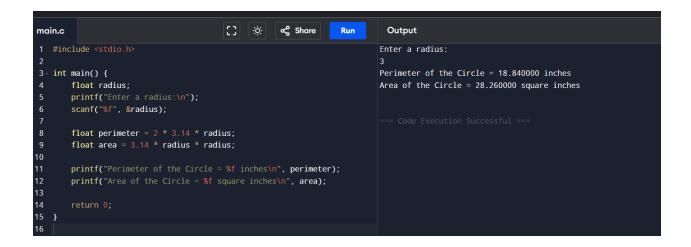
Output: The reverse of XML is LMX

Program 4: Write a C program to compute the perimeter and area of a rectangle with a height of 7 inches and a width of 5 inches.

Code:

```
∝ Share
main.c
                                                                Run
                                                                          Output
 1 #include <stdio.h>
                                                                         Perimeter of the rectangle = 24 inches
                                                                         Area of the rectangle = 35 square inches
 3 int main() {
       int height = 7;
       int width = 5;
       int perimeter = 2 * (height + width);
       int area = height * width;
       printf("Perimeter of the rectangle = %d inches\n", perimeter);
       printf("Area of the rectangle = %d square inches\n", area);
13 }
```

• Program 5: Write a C program to compute the perimeter and area of a circle with a given



Input: 3

Output:

Perimeter of the Circle = 18.840000 inches

Area of the Circle = 28.260000 square inches

Program 6: Write a C program to convert specified days into years, weeks and days. Note: Ignore leap year.

Code:

```
∝ Share
                                                                 Run
                                                                            Output
main.c
                                                                          Number of days: 1307
                                                                          Years: 3
                                                                          Weeks: 30
   int main() {
      int days;
                                                                          Days: 5
       scanf("%d", &days);
       int years = days / 365;
       int weeks = (days % 365) / 7;
       int remaining_days = days % 7;
       printf("Years: %d\n", years);
       printf("Weeks: %d\n", weeks);
       printf("Days: %d\n", remaining_days);
```

Input: 1307

Output:

Years: 3

Weeks: 30

Days: 5

• Program 7: Write a C program that accepts two items' weight and number of purchases

(floating point values) and calculates their average value.

Code:

```
main.c
                                       Output
                                                                       Weight - Item1: 15
                                                                       No. of item1: 5
                                                                      Weight - Item2: 25
3 int main() {
       float w1, w2;
                                                                       No. of item2: 4
       int n1, n2;
                                                                       Average Value = 19.444445
      printf("Weight - Item1: ");
       scanf("%f", &w1);
       scanf("%d", &n1);
       printf("Weight - Item2: ");
       scanf("%f", &w2);
       scanf("%d", &n2);
       float total = (w1 * n1) + (w2 * n2);
18
19
       float average = total / (n1 + n2);
       printf("Average Value = %f\n", average);
```

Input:

15,5,25,4

Output:

Average Value = 19.444445