1. Display multiple variables.

Sample Variables :

a+ c, x + c,dx + x, a + x, s + b, ax + b, s + c, ax + c, ax + ux

Declaration :

int a = 125, b = 12345;

long ax = 1234567890;

short s = 4043;

float x = 2.13459;

double dx = 1.1415927;

char c = 'W';

unsigned long ux = 2541567890;

Solution:-

#include <stdio.h>

int main()

{

int a = 125, b = 12345;

long ax = 1234567890;

short s = 4043;

float x = 2.13459;

double dx = 1.1415927;

char c = 'W';

unsigned long ux = 2541567890;

printf("a + c = %d\n", a + c);

printf("x + c = %f\n", x + c);

printf("dx + x = %f\n", dx + x);

printf("a + x = %f\n", a + x);

printf("s + b = %d\n", s + b);

printf("ax + b = %ld\n", ax + b);

printf("s + c = %hd\n", s + c);

printf("ax + c = %ld\n", ax + c);

printf("ax + ux = %lu\n", ax + ux);

return 0;

}

2. Convert specified days into years, weeks and days.

Solution:-

#include <stdio.h>

main()

{

int days, years, weeks;

Printf(“enter days”);

Scanf(“%d”,&days);

years = days/365;

weeks = (days % 365)/7;

days = days- ((years\*365) + (weeks\*7));

printf("Years: %d\n", years);

printf("Weeks: %d\n", weeks);

printf("Days: %d \n", days);

}

3. Accepts two item’s weight (floating points' values ) and number of purchase (floating

points' values) and calculate the average value of the items.

Solution:-

#include <stdio.h>

main()

{

double w1, c1, w2, c2, result;

printf("Weight =Item1");

scanf("%lf", &w1);

printf("No. of item1");

scanf("%lf", &c1);

printf("Weight =Item2 ");

scanf("%lf", &w2);

printf("No. of item2");

scanf("%lf", &c2);

result = ((w1 \* c1) + (w2 \* c2)) / (c1 + c2);

printf("Average Value = %f\n", result);

}

4. Create enumerated data type for 7 days and display their values in integer constants.

Solution:-

#include <stdio.h>

main()

{

enum week{Sun=1, Mon, Tue, Wed, Thu, Fri, Sat};

printf("Sunday= %d", Sun);

printf("\nmonday = %d", Mon);

printf("\nTuesday = %d", Tue);

printf("\nwednesday = %d", Wed);

printf("\n Thursday = %d", Thu);

printf("\nFriday = %d", Fri);

printf("\nSaturday = %d", Sat);

}

5. Converts Centigrade to Fahrenheit.

Solution:-

#include <stdio.h>

int main()

{

float celsius, fahrenheit;

printf("Enter temperature in Celsius: ");

scanf("%f", &celsius);

fahrenheit = (celsius \* 9 / 5) + 32;

printf("%.2f Celsius = %.2f Fahrenheit", celsius, fahrenheit);

return 0;

}

6. Takes minutes as input, and display the total number of hours and minutes.

Solution:-

#include<stdio.h>

main()

{

int minute;

printf("\n\n\tEnter minutes = ");

scanf("%d",&minute);

printf("\n\t Entered minutes = %d minutes \n\t Which is equivalent to = %d hours and %d minutes",minute,minute/60,minute%60);

}

 7. Prints the perimeter of a rectangle to take its height and width as input.

Solution:-

#include <stdio.h>

int main() {

float rec\_width;

float rec\_height;

float rec\_perimeter;

printf("Input the height of the Rectangle : ");

sscanf(line\_text, "%f", &rec\_height);

printf("Input the width of the Rectangle : ");

sscanf(line\_text, "%f", &rec\_width);

rec\_perimeter = 2.0 \* (rec\_height + rec\_width); /\* perimeter = 2 \* ( width + height )\*/

printf("Perimeter of the Rectangle is : %f\n", rec\_perimeter);

return 0;

}

8. By using +, /, %=, >=, ! operators.

Solution:-

#include<stdio.h>

main()

{

float a,b,c;

a=12;

b=14;

printf("Addition=%f",a+b);

printf("\n Division=%f",a/b);

printf("\n %d",a>=b);

printf("\n %d",a!=b);

}

9. By using &, |, >>, ?:, || operators.

Solution:-

#include<stdio.h>

main()

{

int a,b,c;

a=12;

b=14;

printf("\n %d",a&b);

printf("\n %d",a|b);

printf("\n %d",a>>b);

printf("\n %d",a||b);

}

10. Find the Size of int, float, double and char.

Solution:-

#include<stdio.h>

main()

{

printf("\nsize of int=%d",sizeof(int));

printf("\nsize of float=%d",sizeof(float));

printf("\nsize of char=%d",sizeof(char));

printf("\nsize of double=%d",sizeof(double));

}