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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);
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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()
   {
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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.
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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\t Enter 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);
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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.
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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 &, I, >>, ?:, Il operators.
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Solution:-
#include(stdio.h)
 main()
{
int a,b,c;
a=12;
b=14;
printf("\n %d",a&b);
printf("\n %d",alb);
printf("\n %d",a>>b);
printf("\n %d",allb);
}
10. Find the Size of int, float, double and char.
Solution:-
#include(stdio.h)
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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));
}
```