

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;

```
#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+b = %d",a+b);
    printf("\na+c = %d==> letter will be converted in to ASCII and sum with integer.",a+c);
    printf("\nx+c = %f",x+c);
    printf("\ndx+x = %lf",dx+x);
    printf("\na+x = %f",a+x);
    printf("\ns+b = %i",s+b);
    printf("\nax+b = %li",ax+b);
    printf("\ns+c = %i",s+c);
    printf("\nax+c = %li",ax+c);
    printf("\nax+ux = %li",ax+ux);
    return 0;
}
```

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

```
#include<stdio.h>
int main()
{
```

```

int d,y,w,d1;
printf("Enter the Days:");
scanf("%d",&d);
y=d/365;
w=(d-(y*365))/7;
d1=(d-((y*365)+(w*7)));
printf("y:%d , w: %d , d: %d ",y,w,d1);
return 0;
}

```

- 3) Accepts two item's weight (floating points' values ) and number of purchase (floating points' values) and calculate the average value of the items.

```

#include<stdio.h>
int main()
{
float w1, w2, c1, c2, avg;
printf("Enter the Weight's Item's (Resp.): ");
scanf("%f %f",&w1,&w2);
printf("Enterd the number of purchased Item's (Resp.) ");
scanf("%f %f", &c1 ,&c2);
avg = ((w1*c1)+(w2*c2))/(c1+c2);
printf("\nAverage Value = %f\n", avg);
return 0;
}

```

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

```

#include<stdio.h>
int main()
{
enum week {sun=1, mon, tue, wed, thr, fri, sat};
printf("sun=%d",sun);
printf("mon=%d",mon);
printf("tue=%d",tue);
printf("wed=%d",wed);
printf("thr=%d",thr);
printf("fri=%d",fri);
printf("sat=%d",sat);
}

```

```
    return 0;
}
```

**5)** Converts Centigrade to Fahrenheit.

```
#include<stdio.h>
int main()
{
    float Fahrenheit, celcius;
    printf("enter celcius: ");
    scanf("%f",&celcius);
    fahrenheit=((celcius*9)/5)+32;
    printf("\ntemperature in Fahrenheit is : %f",Fahrenheit);
    return 0;
}
```

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

```
#include<stdio.h>
int main()
{
    int m,h,m1;
    printf("Enter the Minutes : ");
    scanf("%d",&m);
    h=m/60;
    m1=(m-h*60);
    printf("h: %d, m: %d ",h,m1);
    return 0;
}
```

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

```
#include<stdio.h>
int main()
{
    int h, w,p;
    printf("Enter the height and width of the rectangle (Resp.): ");
    scanf("%d %d",&h,&w);
    p=2*(h+w);
    printf("the perimeter of rectangle is %d Units.",p);
}
```

```

    return 0;
}

```

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

```

#include<stdio.h>
int main()
{
    int a=22, b=10, c;
    c=a+b;
    printf("a+b =%d \n",c);
    c=a/b;
    printf("a/b=%d \n" ,c);
    a%=b;
    printf("a= %d \n",a);
    a=22;
    printf("%d != %d is %d \n", a, c, a != c);
    printf("%d >= %d is %d \n", a, c, a >=c);
    return 0;
}

```

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

```

#include<stdio.h>
int main()
{
    int a=12,b=25,c=212,result;
    printf("a&b = %d \n", a&b);
    printf("a|b = %d \n", a|b);
    int n=2;
    printf("right shift by %d :%d \n", n, c>>2);
    result=(a == b) || (c > b);
    printf("(a == b) || (c >b) is %d \n",result);
    result= ((a==7)?(3):(2));
    printf('the value of 'result' variable is : %d',result);
    return 0;
}

```

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

```
#include<stdio.h>
int main()
{
int a;
float b;
double c;
char d;
printf("Size of Int is %lu Bytes\n",sizeof(a));
printf("size of Float is %lu Bytes\n",sizeof(b));
printf("size of Double is %lu Bytes\n",sizeof(c));
printf("size of Char is %lu Bytes\n",sizeof(d));
return 0;
}
```