

QUESTION:-1

```
#include<stdio.h>

int main()
{
    int a=125,b=12345,e,h,i;
    long ax=1234567890,j,k,l,m;
    short s=4043;
    float x=2.13459,f;
    double dx=1.1415927,g;
    char c='W';
    unsigned long ux=2541567890;

    e=a+c;
    printf("a+c=%d",&e);

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

    g=dx+x;
    printf("dx+x=%lf",&g);

    h=a+x;
    printf("a+x=%d",&h);

    i=s+b;
    printf("s+b=%d",&i);

    j=ax+b;
    printf("ax+b=%ld",&j);

    k=s+c;
    printf("s+c=%ld",&k);

    l=ax+c;
```

```

printf("ax+c=%ld",&l);

m=ax+ux;

printf("ax+ux=%ld",&m);
}

```

OUTPUT:

```

a+c=-1057560308x+c=0.000000dx+x=0.000000a+x=-1057560304s+b=-
1057560300ax+b=140732135827752s+c=140732135827760ax+c=1407321358
27768ax+ux=140732135827776

```

QUESTION:2

```

#include<stdio.h>

int main()
{
    int d, yr, w;

    d = 1180;

    yr = d/365;

    w = (d % 365)/7;

    d = d- ((yr*365) + (w*7));

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

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

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

    return 0;
}

```

OUTPUT

Years: 3

Weeks: 12

Days: 1

QUESTION:-3

```
#include <stdio.h>

int main()
{
float weight1, No1, weight2, No2, result;
    printf("Enter the weight of first item :");
scanf("%f", &weight1);
printf("Enter the no of purchase of First item ");
scanf("%f", &No1);
printf("Enter the weight of second item: ");
scanf("%f", &weight2);
printf("Enter the no of purchase  of second item");
scanf("%f", &No2);
result = ((weight1 * No1) + (weight2 * No2)) / 2;
printf("Average Value = %f\n", result);
return 0;
}
```

OUTPUT:-

```
Enter the weight of first item :40
Enter the no of purchase of First item 4
Enter the weight of second item: 30
Enter the no of purchase  of second item6
Average Value = 170.000000
```

QUESTION:-4

```
#include <stdio.h>

int main()
{
    enum week{Sun, Mon, Tue, Wed, Thu, Fri, Sat};
    printf("Sun = %d", Sun);
    printf("\nMon = %d", Mon);
    printf("\nTue = %d", Tue);
    printf("\nWed = %d", Wed);
    printf("\nThu = %d", Thu);
    printf("\nFri = %d", Fri);
    printf("\nSat = %d", Sat);
    return 0;
}
```

OUTPUT:

Sun = 0

Mon = 1

Tue = 2

Wed = 3

Thu = 4

Fri = 5

Sat = 6

QUESTION:-5

```
#include <stdio.h>

int main(){
```

```
float celsius,fahrenheit;
printf("Enter temperature in celsius:");
scanf("%f",&celsius);
fahrenheit=(celsius*9/5)+32;
printf("the temperature in fahrenheit=%f",fahrenheit);
return 0;
}
```

OUTPUT:

Enter temperature in celsius:6
the temperature in fahrenheit=42.799999

QUESTION:-6

```
#include<stdio.h>
int main()
{
    int minutes, hr,min;
    minutes = 1000;
    hr = minutes/60;
    min=minutes%60;
    printf("hours: %dhr\n", hr);
    printf("minutes: %dmins\n", min);
    return 0;
}
```

OUTPUT:

hours: 16hr

minutes: 40mins

QUESTION:7

```
#include <stdio.h>

int main()
{
    float height, width, perimeter;
    printf("Enter height of the rectangle: ");
    scanf("%f", &height);
    printf("Enter width of the rectangle: ");
    scanf("%f", &width);
    perimeter = 2 * (height + width);
    printf("Perimeter of rectangle = %f units ", perimeter);
    return 0;
}
```

OUTPUT:

```
Enter height of the rectangle: 45
Enter width of the rectangle: 20
Perimeter of rectangle = 130.000000 units
```

QUESTION:-8

```
#include<stdio.h>

int main()
{
    int a=10,b=20,c;
    c=a+b;
```

```

printf("a+b=%d\n",c);
c=a/b;
printf("a/b=%d\n",c);
c%=a;
printf("c=%d\n",c);
printf("%d>=%d is %d\n",a,b,a>=b);
c=a!=b;
printf("a!=b is %d\n",c);

}

```

OUTPUT:-

```

a+b=30
a/b=0
c=0
10>=20 is 0
a!=b is 1

```

QUESTION:-9

```

#include<stdio.h>

int main()
{
    int a=21,b=15,c=15,num=100,i,result;
    printf("output=%d",a&b);
    printf("output=%d",a|b);
    for(i=0;i<2;i++)

```

```

{
    printf("rightshift by %d:%d\n",i,num>>i);
}
i=((num==106)?(2):(3));
printf("the value of i is :%d\n",i);
result=(b==c) || (c>a);
printf("((b==c) || ((c>a)) is %d\n",result);
return 0;
}

```

OUTPUT:-

output=5output=31rightshift by 0:100

rightshift by 1:50

the value of i is :3

((b==c) || ((c>a)) is 1

QUESTION:10

```
#include<stdio.h>
```

```
int main() {
```

```
    int i;
```

```
    float f;
```

```
    double d;
```

```
    char c;
```

```
    printf("Size of int: %zu bytes\n", sizeof(int));
```



```
printf("Size of float: %zu bytes\n", sizeof(float));  
printf("Size of double: %zu bytes\n", sizeof(double));  
printf("Size of char: %zu byte\n", sizeof(char));  
return 0  
}
```

OUTPUT:-

Size of int: 4 bytes

Size of float: 4 bytes

Size of double: 8 bytes

Size of char: 1 byte