

ASSIGNMENT-1

1) Add two Numbers

```
#include <stdio.h>

int main()
{
    int a, b, sum;
    printf("Enter First number: ");
    scanf("%d", &a);
    printf("Enter second number: ");
    scanf("%d", &b);
    sum = a + b;
    printf("Sum = %d", sum);
}
```

2) Subtract two Numbers

```
#include <stdio.h>

int main()
{
    int a, b, diff;
    printf("Enter First number: ");
    scanf("%d", &a);
    printf("Enter Second number: ");
    scanf("%d", &b);
    diff = a - b;
    printf("diff = %d", diff);
}
```


3) Multiply two numbers

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

```
int main()
```

```
{
```

```
    int a, b, product;
```

```
    printf("Enter first number: ");
```

```
    scanf("%d", &a);
```

```
    printf("Enter second number: ");
```

```
    scanf("%d", &b);
```

```
    product = a * b;
```

```
    printf("product = %d", product);
```

```
}
```

4) Divide two numbers

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

```
int main()
```

```
{
```

```
    int a, b, div;
```

```
    printf("Enter first number: ");
```

```
    scanf("%d", &a);
```

```
    printf("Enter second number: ");
```

```
    scanf("%d", &b);
```

```
    if (b != 0)
```

```
    {
```

```
        div = a / b;
```

```
        printf("div = %d", div);
```

```
    }
```

```
    else
```

```
    {
```



```
printf("Error! no division by zero.");
```

```
}
```

```
}
```

5) Add, subtract, multiply, divide two numbers.

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

```
int main()
```

```
{
```

```
int a, b, sum, diff, prod, div;
```

```
printf("Enter First number:");
```

```
scanf("%d", &a);
```

```
printf("Enter second number:");
```

```
scanf("%d", &b);
```

```
sum = a + b;
```

```
printf("sum = %d", sum);
```

```
diff = a - b;
```

```
printf("diff = %d", diff);
```

```
prod = a * b;
```

```
printf("prod = %d", prod);
```

```
div = a / b;
```

```
printf("div = %d", div);
```

```
}
```


6) Convert hours into minutes

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

```
int main()
```

```
{
```

```
int hours, minutes;
```

```
printf("Enter hours:");
```

```
scanf("%d", &hours);
```

```
minutes = hours * 60;
```

```
printf("%d hours = %d minutes", hours, minutes);
```

```
}
```

7)

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

```
int main()
```

```
{
```

```
int mins, hrs, remaining mins;
```

```
printf("Enter minutes:");
```

```
scanf("%d", &mins);
```

```
hrs = mins / 60;
```

```
remaining mins = mins % 60;
```

```
printf("%d mins = %d hrs and %d mins", mins, hrs,  
remaining mins);
```

```
}
```


8)

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

```
int main()
```

```
{
```

```
    int dollars, rupees;
```

```
    printf("Enter amount in dollars:");
```

```
    scanf("%d", &dollars);
```

```
    rupees = dollars * 48;
```

```
    printf("rupees = %d", rupees);
```

```
}
```

9)

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

```
int main()
```

```
{
```

```
    int rupees dollars;
```

```
    printf("Enter amount in rupees:");
```

```
    scanf("%d", &rupees);
```

```
    dollars = rupees / 48;
```

```
    printf("dollars = %d", dollars);
```

```
}
```


10)

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

```
int main()
```

```
{
```

```
float dollars, rupees, pounds;
```

```
printf("Enter amount in dollars:");
```

```
scanf("%f", &dollars);
```

```
rupees = dollars * 48;
```

```
pounds = rupees / 70;
```

```
printf("%2f dollars = %2f pounds", dollars, pounds);
```

```
}
```

11)

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

```
int main()
```

```
{
```

```
float grams, kilograms;
```

```
printf("Enter weight in grams:");
```

```
scanf("%f", &grams);
```

```
kilograms = grams / 1000;
```

```
printf("%2f grams = %2f kilograms", kilograms, grams);
```

```
}
```


12)

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

```
int main()
```

```
{
```

```
float kilograms, grams;
```

```
printf("Enter weight in kg: ");
```

```
scanf("%f", &kilograms);
```

```
grams = kilograms * 1000;
```

```
printf("%2f kilograms = %2f grams", kilograms, grams);
```

```
}
```

13)

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

```
int main
```

```
{
```

```
double bytes, kb, mb, gb;
```

```
printf("Enter size in bytes:");
```

```
scanf("%f", &bytes);
```

```
kb = bytes / 1024;
```

```
mb = bytes / (1024 * 1024);
```

```
gb = bytes / (1024 * 1024 * 1024);
```

```
printf("kilobytes = %2f KB", kb);
```

```
printf("megabytes = %2f MB", mb);
```

```
printf("gigabytes = %2f GB", gb);
```

```
}
```


14)

```
#include <stdio.h>

int main()
{
    float c, f;
    printf("temperature in celsius: ");
    scanf("%f", &c);
    f = (9.0/5.0 * c) + 32;
    printf("Temperature in farenheit %f", f);
}
```

15)

```
#include <stdio.h>

int main()
{
    float f, c;
    printf("Enter temperature in farenheit: ");
    scanf("%f", &f);
    c = (5.0/9.0) * (f - 32);
    printf("Temperature in celsius: %f", c);
}
```


16)

```
#include <stdio.h>

int main()
{
    float p, r, n, i;
    printf("Enter Principal, Rate & time:");
    scanf("%f %f %f", &p, &r, &n);
    i = (p * r * n) / 100;
    printf("Simple Interest = %f", i);
}
```

17)

```
#include <stdio.h>

int main()
{
    float l, area, perimeter;
    printf("Enter length:");
    scanf("%f", &l);
    area = l * l;
    perimeter = 4 * l;
    printf("Area = %f, Perimeter = %f", area, perimeter);
}
```


18)

#include <stdio.h>

int main()

{

float l, b, area, perimeter;

printf("Enter length and breadth: ");

scanf("%f %f", &l &b);

area = l * b;

perimeter = 2 * (l + b);

printf("Area = %f, Perimeter = %f", area, perimeter);

}

19)

#include <stdio.h>

int main()

{

float r, area;

printf("Enter height and base: ");

scanf("%f %f", &h, &l);

area = (h * l / 2)

printf("Area of triangle = %f", area);

}

21)

#include <stdio.h>

int main()

{

float gross, net, allowance, deduction;

printf("Enter gross salary: ");

scanf("%f", &gross);

allowance = 0.10 * gross;

deduction = 0.03 * gross;

net = gross + allowance - deduction;

printf("Net Salary = %2f", net);

}

22)

#include <stdio.h>

int main()

{

float gross, net;

printf("Enter Gross sales: ");

scanf("%f", &gross);

net = gross - (0.10 * gross);

printf("Net Sales = %2f", net);

}

23)

```
#include <stdio.h>

int main()
{
    float s1, s2, s3, total, avg;
    printf("Enter marks of three subjects: ");
    scanf("%f %f %f", &s1, &s2, &s3);
    total = s1 + s2 + s3;
    avg = total / 3;
    printf("Total = %2f, Average = %2f", total, avg);
}
```

24)

```
#include <stdio.h>

int main()
{
    int a, b, temp;
    printf("Enter two numbers: ");
    scanf("%d %d", &a, &b);
    temp = a;
    a = b;
    b = temp;
    printf("After swapping: a = %d, b = %d", a, b);
}
```