

## Type 1 Function using only int

### 1 Finding F from C (temp).

```
#include<stdio.h>
void findingf();
void main()
{
    findingf();
}

void findingf()
{
    int c,f;
    printf("\t\tEnter the Celsius: ");
    scanf("%d",&c);
    f = ((c*9)/5)+32;
    printf("\t\tTemperature in Fahrenheit is : %d\n",f);
}
```

### 2 Finding area and perimeter of rectangle or circle.

```
#include<stdio.h>
void rectangle();
void circle();
void main()
{
    int a;
    printf("Finding area and perimeter : \n 1 Rectangle \n 2 Circle \n choose any one ");
    scanf("%d",&a);
    if(a==1)
    {
        rectangle();
    }
    if(a==2){
        circle();
    }
    else {
        printf("!!!!invalid option!!!!\n");
    }
}

void rectangle()
{
    int l;
    int w;
    int area;
    int p;
    printf("Enter the length of rectangle : ");
    scanf("%d",&l);
    printf("Enter the width of the rectangle: ");
    scanf("%d",&w);
    area = l * w ;
    printf("Area of rectangle is : %d",area);
}
```

```

printf("\n");
p = 2 * (l + w ) ;
printf("perimeter of rectangle is : %d ",p);
printf("\n");
}

void circle()
{
int r ;
int area ;
int perimeter ;
int pai = 22/7;
printf("enter the radius of circle : ");
scanf("%d",&r);
area = pai * (r * r);
printf("area of circle is : %d",area);
printf("\n");
perimeter = 2 * pai * r ;
printf("Perimeter of circle is : %d",perimeter);
printf("\n");
}

```

**3Accept a 3 digit number from user and find the sum of the digits and also reverse the number**

```

#include<stdio.h>
void reverse();
void sumofdigit();
void both();
void main()
{
int a;
printf("choose any one\n 1 sum of digit \n 2 reverse the number \n 3 both \ntype here:
");
scanf("%d",&a);
if(a==1)
sumofdigit();
if(a==2)
reverse();
if(a==3){
both();
}
else
{
printf("invalid input \n");
}
}

void sumofdigit()
{
int num;
int r ;
int sum;
printf("enter the number here:");
scanf("%d",&num);

```

```

    for(sum=0;r = num %10; num=num/10)
    {
        sum = sum + r;
    }
    printf("sum of digit is : %d \n", sum);
}

```

```

void reverse()
{
    int re ;
    int num ;
    int r ;
    printf("Enetr the number is here : ");
    scanf("%d",&num);
    for(re=0;r=num%10;num = num/10)
    {
        re = re *10 + r;
    }
    printf("the reverse value is : %d\n",re);
}

```

```

void both()
{

    int num;
    int sum;
    int r;
    int reverse=0;
    int rem;
    printf("Enter the 3 digit number: ");
    scanf("%d",&num);
    for(sum = 0;r = num%10 ; num = num/10)
    {
        sum = sum + r ;
        reverse = reverse * 10 + r;
    }
    printf("sum of digit is : %d ",sum);
    printf("\n");
    printf("\n reverse the number %d ",reverse);
    printf("\n");
}

```

#### **4 Check if the given number is even or odd.**

```

#include<stdio.h>
void evenodd();
void main()
{
    evenodd();
}
void evenodd()
{
    int num ;
    printf("enter the number here : ");

```

```

scanf("%d",&num);
if(num%2==0){
    printf("its even number : %d\n",num);
}
else{
    printf("its odd number : %d\n",num);
}
}

```

**5 Calculating total salary based on basic. If basic <=5000 da, ta and hra will be 10%,20% and 25% respectively otherwise da, ta and hra will be 15%,25% and 30% respectively.**

```

#include<stdio.h>

void less();
void other();
void main()
{
    int salary;
    int da,ta,hra;
    int total;
    printf("Enter the salary : ");
    scanf("%d",&salary);
    if(salary<=5000 )
    {
        da = salary * 10/100;
        ta = salary * 15/100;
        hra = salary *25/100;
        less();
    }
    else{
        da = salary * 15/100;
        ta = salary * 25/100;
        hra = salary * 30/100;
        other();
    }
    total = salary + da + ta + hra;
    printf("total salary on basic is : %d",total);
    printf("\n");
}

void less()
{
    printf("you get 10 and 20 and 25 percent discount \n");
}

void other()
{
    printf("you get 15 and 25 and 30 percent discount \n");
}

```

**6 Find the price of item when discount is given (specify different discount based on price)**

```

#include<stdio.h>
void fivep();
void tenp();

```

```

void main()
{
    int price;
    int five;
    int total;
    int tend;
    printf("Get discount on price ");
    printf("Enter the price : ");
    scanf("%d",&price);
    if(price<500)
    {
        five = price * 0.05;
        total = price - five;
        fivep();
    }
    else
    {
        tend = price * 0.10;
        total = price - tend;
        tenp();
    }
}

```

```

}

```

```

void fivep()
{
    printf(" you get 5 Percent discount ");
    printf("\n");
}

```

```

void tenp()
{
    printf(" you get 10 Percent discount ");
    printf("\n");
}

```

**7 Write a program to find greatest of three numbers using nested if-else.**

```

#include<stdio.h>
void findbig();
void main()
{
    printf("\t\tWelcome Find big number\n");
    findbig();
    printf("\t\tThank you \n");
}
void findbig()
{
    int n1,n2,n3;
    printf("\tEnter the three number here :\n");
    printf("\tEnter the First number: ");
    scanf("%d",&n1);
}

```

```

        printf("\tEnter the second number: ");
        scanf("%d",&n2);
        printf("\tEnter the third number: ");
        scanf("%d",&n3);
        n1>n2?(n1>n3?printf(" \tFirst number is max %d\n",n1):printf("\tThird number is big
%d \n",n3)):(n2>n3?printf("\tSecond number is max %d \n",n2 ):printf("\tThird number is max%d \
n",n3));
    }

```

## 8 Accept two numbers from user and an operator (+,-,/,\*,%) based on that perform the desired operations

```

#include<stdio.h>
void add();
void sub();
void mult();
void divi();
void Rem();

void main()
{
    int a;
    printf("\t*****Menu*****\n");
    printf("\n\t 1 Addition \n\t 2 Substraction \n\t 3 Multiplication \n\t 4 Division \n\t 5
remender \n Choose any one : ");
    scanf("%d",&a);
    if(a==1)
        add();
    if(a==2)
        sub();
    if(a==3)
        mult();
    if(a==4)
        divi();
    if(a==5)
        Rem();
    printf("\t*****Thank you *****\n");
}

void add()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    printf("Enter the Second Number : ");
    scanf("%d",&num2);
    total = num1 + num2 ;
    printf( "Addition is : %d\n", total);
}

```

```

void sub()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    printf("Enter the Second Number : ");
    scanf("%d",&num2);
    total = num1 - num2 ;
    printf( "Substraction is : %d\n", total);
}
void mult()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    printf("Enter the Second Number : ");
    scanf("%d",&num2);
    total = num1 * num2 ;
    printf( "Multiplication is : %d\n", total);
}
void divi()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    printf("Enter the Second Number : ");
    scanf("%d",&num2);
    total = num1 / num2 ;
    printf( "Division is : %d\n", total);
}

void Rem()
{
    int num1 ,num2,total;
    printf("Enter the one number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    total = num1 % 10 ;
    printf( "Division is : %d\n", total);
}

```

**9 Display a menu to the user (like 1.Even Odd 2. Basic salary etc), ask the user to enter his choice, then based on that perform the desired operations.**

```

#include<stdio.h>
    void evenodd();
    void calcu();
    void cel();
    void big();
    void add();

```

```

void sub();
void mult();
void divi();
void Rem();
void main()
{
    int a;
    printf("\t*****Menu*****:\n");
    printf("\n\t 1 Even or odd \n\t 2 +-* / \n\t 3 find cel \n\t 4 find big number \n
Choose any one : ");
    scanf("%d",&a);
    if(a==1)
        evenodd();
    if(a==2)
        calcu();
    if(a==3)
        cel();
    if(a==4)
        big();
}

void evenodd()
{
    int num ;
    printf("enter the number here : ");
    scanf("%d",&num);
    if(num%2==0){
        printf("its even number : %d\n",num);
    }
    else{
        printf("its odd number : %d\n",num);
    }
}

void calcu()
{
    int a;
    printf("\t*****Menu*****:\n");
    printf("\n\t 1 Addition \n\t 2 Substraction \n\t 3 Multiplication \n\t 4 Division \n\t 5
remender \n Choose any one : ");
    scanf("%d",&a);
    if(a==1)
        add();
    if(a==2)
        sub();
    if(a==3)
        mult();
    if(a==4)
        divi();
    if(a==5)
        Rem();
    printf("\t*****Thank you *****\n");
}

```



```

void cel()
{
    int c,f;
    printf("\t\tEnter the Celsius: ");
    scanf("%d",&c);
    f = ((c*9)/5)+32;
    printf("\t\tTemperature in Fahrenheit is : %d\n",f);
}
void big()
{
    int n1,n2,n3;
    printf("\tEnter the three number here :\n");
    printf("\tEnter the First number: ");
    scanf("%d",&n1);
    printf("\tEnter the second number: ");
    scanf("%d",&n2);
    printf("\tEnter the third number: ");
    scanf("%d",&n3);
    n1>n2?(n1>n3?printf(" \tFirst number is max %d\n",n1):printf("\tThird number
is big %d \n",n3)): (n2>n3?printf("\tSecond number is max %d \n",n2 ):printf("\tThird number is
max%d \n",n3));

}

void add()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    printf("Enter the Second Number : ");
    scanf("%d",&num2);
    total = num1 + num2 ;
    printf( "Addtion is : %d\n", total);

}

void sub()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");
    scanf("%d",&num1);
    printf("Enter the Second Number : ");
    scanf("%d",&num2);
    total = num1 - num2 ;
    printf( "Substration is : %d\n", total);
}

void mult()
{
    int num1 ,num2,total;
    printf("Enter the two number here :\n");
    printf("Enter the First number: ");

```

```

        scanf("%d",&num1);
        printf("Enter the Second Number : ");
        scanf("%d",&num2);
        total = num1 * num2 ;
        printf( "Multiplication is : %d\n", total);
    }
    void divi()
    {
        int num1 ,num2,total;
        printf("Enter the two number here :\n");
        printf("Enter the First number: ");
        scanf("%d",&num1);
        printf("Enter the Second Number : ");
        scanf("%d",&num2);
        total = num1 / num2 ;
        printf( "Division is : %d\n", total);
    }

    void Rem()
    {
        int num1 ,num2,total;
        printf("Enter the one number here :\n");
        printf("Enter the First number: ");
        scanf("%d",&num1);
        total = num1 % 10 ;
        printf( "Division is : %d\n", total);
    }
}

```

**10 Accept the price from user. Ask the user if he is a student (user may say yes or no). If he is a student and he has purchased more than 500 than discount is 20% otherwise discount is 10%. But if he is not a student then if he has purchased more than 600 discount is 15% otherwise there is not discount.**

```

#include<stdio.h>
void nonstud();
void stud();
void main()
{

    int price;
    int v;
    int final,total;
    printf( "you are studnet ( yes(1) or no(2) ):");
    scanf ("%d",&v);
    if(v == 1)
        stud();
    if(v == 2)
        nonstud();
}
void stud()
{
    int price;
    int final,total;

```

```

printf ("you are student so u will get discount \n");
printf("enter the price here :");
scanf("%d",&price);
if(price>500)
{
    final = price * 0.2;
    total = price -final;
    printf (" 20 percent discount you get : %d\n",total);
}else
{
    final = price * 0.1;
    total = price -final;
    printf ("10 percent discount you get : %d \n",total);
}
}
void nonstud()
{
    int price;
    int final,total;
    printf ("you are non-student so u will get discount \n");
    printf("enter the price here :");
    scanf("%d",&price);
    if(price>600)
    {
        final = price * 0.15;
        total = price -final;
        printf("15 percent discount you get is : %d \n",total);
    }else
    {
        printf("Sorry u are not valid for discount : %d \n",price);
    }
}
}

```

# 11 Accept a number with 1 or 2 digit from user and display it in words.

```

#include<stdio.h>
void displayinword();
void main()
{
    displayinword();
}
void displayinword()
{
    int num1 ,num2;
    printf("Enter the First number :");
    scanf("%d",&num1);
    printf("Enter the Second number :");
    scanf("%d",&num2);
    if (num1<20)
    {
        if(num1 == 0)
        printf("ZERO");
    }
}

```

```
if(num1 == 1)
printf("one");
if(num1 == 2)
printf("two");
if(num1 == 3)
printf("three");
if(num1 == 4)
printf("four");
if(num1 == 5)
printf("five");
if(num1 == 6)printf("six");
if(num1 == 7)
printf("seven");
if(num1 == 8)
printf("eight");
if(num1 == 9)
printf("nine");
if(num1 == 10)
printf("ten");
if(num1 == 11)
printf("Eleven");
if(num1 == 12)
printf("Twelve");
if(num1 == 13)
printf("Thirteen");
if(num1 == 14)
printf("Fourteen");
if(num1 == 15)
printf("Fifteen");
if(num1 == 16)
printf("Sixteen");
if(num1 == 17)
printf("Seventeen");
if(num1 == 18)
printf("Eighteen");
if(num1 == 19)
printf("Nineteen");
if(num1 == 20)
printf("Twenty");
}
else
{
printf("not valid ");
}
printf(" ");
if(num2<20)
{
if(num2 == 0)
printf("ZERO");
if(num2 == 1)
printf("one");
if(num2 == 2)
```

```

printf("two");
if(num2 == 3)
printf("three");
if(num2 == 4)
printf("four");
if(num2 == 5)
printf("five");
if(num2 == 6)
printf("six");if(num2 == 7)
printf("seven");
if(num2 == 8)
printf("eight");
if(num2 == 9)
printf("nine");
if(num2 == 10)
printf("Ten");
if(num2 == 11)
printf("Eleven");
if(num2 == 12)
printf("Twelve");
if(num2 == 13)
printf("Thirteen");
if(num2 == 14)
printf("Fourteen");
if(num2 == 15)
printf("Fifteen");
if(num2 == 16)
printf("Sixteen");
if(num2 == 17)
printf("Seventeen");
if(num2 == 18)
printf("Eighteen");
if(num2 == 19)
printf("Nineteen");
if(num2 == 20)
printf("Twenty");
}
else
{
printf("not valid ");
}
}

```

## 12 Factorial

```

#include<stdio.h>
void Factorial();
void main()
{
Factorial();
}

```

```
void Factorial()
{
    int num;
    int f;
    int i=1;
    printf("\nEnter the number : ");
    scanf("%d",&num);
    for(f=1;i<=num;i++)
    {
        f = f*i;
    }
    printf("Factorial is : %d \n",f);
}
```