

Type2 Function only int datatype use

1 Finding F from C (temp).

```
#include<stdio.h>
float findingf();
void main()
{
    float x ;
    x = findingf();
    printf("\t\tTemperature in Fahrenheit is : %f\n",x);
}

float findingf()
{
    float c,f;
    printf("\t\tEnter the Celsius: ");
    scanf("%f",&c);
    f = ((c*9)/5)+32;
    return f;
}
```

2 Finding area and perimeter of rectangle or circle.

```
#include<stdio.h>
int rectangle();
int circle();
int input();
int a_rectangle();
int p_rectangle();
int a_circle();
int p_circle();
void main()
{
    int a;
    a = input();
    printf (":%d\n",a);
}

int input()
{
    int a;
    printf("Finding area and perimeter : \n 1 Rectangle \n 2 Cricle \n choose any one ");
    scanf("%d",&a);
    if(a==1)
    {
        rectangle();
    }else{
        if(a==2){
            circle();
        }
        else {

```

```

        printf("!!!!invalid option!!!!\n");
    }
}
}

int rectangle()
{
    int a;
    printf(" Rectangle  choose any one :\n 1 Perimeter \n 2 Area :\n ");
    scanf("%d",&a);
    if (a==1)
    {
        p_rectangle();

    }else
    {
        if(a==2)
        {
            a_rectangle();
        }else
        {
            printf("invalid option\n");
            rectangle();

        }
    }
}

int a_rectangle()
{
    int l;
    int w;
    int area;
    int p;
    int o;
    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 :");
    printf("\n");
    return area;
}

int p_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);
p = 2 * (l + w ) ;
printf("perimeter of rectangle is : ");
printf("\n");
return p;
}

```

```

int circle()
{
int a;
printf(" Circle  choose any one :\n 1 Perimeter  \n 2 Area :\n ");
scanf("%d",&a);
    if (a==1)
    {
        p_circle();

    }else
    {
        if(a==2)
        {
            a_circle();
        }else
        {
            printf("invalid option\n");
            circle();
        }
    }
}

```

```

}

```

```

int a_circle()
{
int r ;
int area ;
int pai = 3.14;
printf("enter the radius of circle : ");
scanf("%d",&r);
area = pai * (r * r);
printf("area of circle is :");
return area;
printf("\n");
}

```

```

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

```

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

```

#include<stdio.h>
int reverse();
int sumofdigit();
int input();
void main()
{
    int a = input();
    printf("%d\n",a);
}

int input()
{
    int a;
    printf("choose any one\n 1 sum of digit \n 2 reverse the number \n type here: ");
    scanf("%d",&a);
    if(a==1){
        sumofdigit();
    }else{
        reverse();
    }
}

int 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 :");
    return sum;
}

```

```

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

```

4 Check if the given number is even or odd.

```

#include<stdio.h>
int evenodd();
void main()
{
    int x;
    x = evenodd();
    printf("%d",x);
}
int evenodd()
{
    int num ;
    printf("enter the number here : ");
    scanf("%d",&num);
    if(num%2==0){
        printf("its even number : %d\n",num);
        return num;
    }
    else{
        printf("its odd number : %d\n",num);
        return 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();
int input();
void main()
{
    int a;

    printf("salary is %d \n",input());
}

```

```

}

int input()
{
    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;
        return total;
    }

    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();
int input();
void main()

{
    int x ;
    x = input();
    printf("price is : %d\n",x);
}

```

```

int input()
{
    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();
        return total;

    }
    else
    {
        tend = price * 0.10;
        total = price - tend;
        tenp();
        return total;
    }
}

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>
int findbig();
void main()
{
    int a ;
    printf("\t\tWelcome Find big number\n");
    a = findbig();
    printf("And number is : %d \n",a);
    printf("\t\tThank you \n");
}
int findbig()

```

```

{
    int a,b,c;
    printf("\tEnter the three number here :\n");
    printf("\tEnter the First number: ");
    scanf("%d",&a);
    printf("\tEnter the second number: ");
    scanf("%d",&b);
    printf("\tEnter the third number: ");
    scanf("%d",&c);
    int max;
    if (a>b && a>c){
        printf("\ta is max ");
        return a;
    }else{
        if (b>c && b>a){
            printf("\tb is max ");
            return b;
        }else{
            if (c>b && c>a)
                printf("\tc is max ");
            return c;
        }
    }
}
}

```

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

```

#include<stdio.h>

int add();
int sub();
int mult();
int divi();
int input();
int Rem();

void main()
{
    int a ;
    a = input ();
    printf("%d\n",a);
    printf("\t*****Thank you *****\n");
}

int input()
{
    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 remainder \n\t Choose any one : ");
    scanf("%d",&a);
    if(a==1){

```



```

        add();
    }else{if(a==2)
        {
            sub();
        }else{if(a==3)
            {
                mult();
            }else{
                if(a==4){
                    divi();
                }else{
                    if(a==5){
                        Rem();
                    }else
                    {
                        printf("invalid\n");
                    }
                }
            }
        }
    }

}

}

}

int 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 : ");
    return total;
}

int 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 : ");
        return total;
    }
int 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 : ");
    return total;
}
int 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 : ");
    return total;
}

int 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 : ");
    return 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>
    int evenodd();
    int calcu();
    int cel();
    int big();
    int add();
    int sub();
    int mult();
    int divi();
    int Rem();

```

```

int input();
void main()
{
    int a;
    a= input();
    printf(":->> %d \n",a);
}

```

```

int input()
{
    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();
    }else{
        if(a==2){
            calcul();
        }else{
            if(a==3){
                cel();
            }else{
                if(a==4){
                    big();
                }else{
                    printf("invalid \n");
                }
            }
        }
    }
}

```

```

}

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

```

```

int calcul()
{

```

```

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();
}else{if(a==2)
    {
        sub();
    }else{if(a==3)
        {
            mult();
        }else{
            if(a==4){
                divi();
            }else{
                if(a==5){
                    Rem();
                }else
                {
                    printf("invalid\n");
                }
            }
        }
    }
}
}

```

```

}
}
int cel()
{
    int c,f;
    printf("\t\tEnter the Celsius: ");
    scanf("%d",&c);
    f = ((c*9)/5)+32;
    printf("\t\tTemperature in Fahrenheit is : ");
    return f;
}
int big()
{
    int a,b,c;
    printf("\tEnter the three number here :\n");
    printf("\tEnter the First number: ");
    scanf("%d",&a);
    printf("\tEnter the second number: ");
    scanf("%d",&b);
    printf("\tEnter the third number: ");

```

```

scanf("%d",&c);
int max;
if (a>b && a>c){
printf("\ta is max ");
return a;
}else{
    if (b>c && b>a){
        printf("\tb is max ");
        return b;
    }else{
        if (c>b && c>a)
printf("\tc is max ");
return c;
    }
}
}
}

```

```

int 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 : ");
    return total;
}

```

```

}
int 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 : ");
    return total;
}

```

```

int 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 : ");
        return total;
    }
    int 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 : ");
        return total;
    }

    int 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 : ");
        return 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 then 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>
int nonstud();
int stud();
int input();
void main()
{
    int y;
    y = input();
    printf("value is : %d \n",y);

}

int input()
{
    int v;
    printf( "you are studnet ( yes(1) or no(2) ):" );
    scanf ("%d",&v);
    if(v == 1)
    {

```

```

stud();
}else{
if(v == 2){
nonstud();
}
else{
printf("invalid option \n");
}
}
}

```

```

int 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(" you are student and you get 20Percent off bcz price is more
than 500 \n");

        return total;
    }else
    {
        final = price * 0.1;
        total = price -final;
        printf(" you are student and you get 10 Percent off bcz of price is less
than 500 \n");

        return total;
    }
}

```

```

int 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("price is more the 600 so u get 15 Percent discount \n");
        return total;
    }else
    {

```

```

        printf("Sorry u are not valid for discount\n");
        return price;
    }
}

```

11 find out the Factorial of any number

```

#include<stdio.h>
int Factorial();
void main()
{
    int a ;
    a = Factorial();
    printf("%d\n",a);
}

int 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 : ");
    return f;
}

```