

-
1. Write a program to input two numbers and display the highest number.

```
#include <stdio.h>

int main()
{
    int no1,no2,max;
    printf("Enter two numbers ");
    scanf("%d %d",&no1,&no2);
    if(no1>no2)
        max=no1;
    else
        max=no2;
    printf("The highest is %d \n",max);
}
```

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2. Write a complete program to ask user enter three integer numbers, and then tell the user the largest value and smallest value among the three numbers.

```
#include <stdio.h>

int main()
{
    int no1,no2,no3,large,small;
    printf("Enter three numbers ");
    scanf("%d %d %d",&no1,&no2,&no3);
    if(no1>no2)
        if(no1>no3)
            large=no1;
        else
            large=no3;
    else
```

```

    if(no2>no3)
        large=no2;
    else
        large=no3;

    if(no1<no2)
        if(no1<no3)
            small=no1;
        else
            small=no3;
    else
        if(no2<no3)
            small=no2;
        else
            small=no3;

    printf("The Largest Number is %d \n",large);
    printf("The Small is %d \n",small);
}

```

3. Display employee name, new salary, when the user inputs employee name, and basic salary. You can refer following formula and the table to calculate new salary:

$$\text{New Salary} = \text{Basic Salary} + \text{Increment}$$

<u>Basic Salary</u>	<u>Increment</u>
Less than 5000	5% of Basic Salary
More than or equal 5000 and less than 10000	10% of Basic Salary
More than or equal 10,000	15% of Basic Salary

```

#include <stdio.h>
int main()
{
    float bsal,nsal,inc;
    char empn[20];

    printf("Enter Employee Name: ");
    scanf("%s",&empn);
    printf("Enter Your Basic Salary: ");
    scanf("%f",&bsal);

    if(bsal>=10000)
        inc=bsal*0.15;
    else if(bsal>=5000)
        inc=bsal*0.10;
    else
        inc=bsal*0.05;

    nsal=bsal+inc;

    printf("Employee Name %s \n New Salary %.2f \n",empn,nsal);
}

```

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4. Diameter, Circumference and Area of a Circle) Write a program that reads in the radius of a circle and prints the circle's diameter, circumference and area. Use the constant value 3.14159 for π . Perform each of these calculations inside the printf statement(s) and use the conversion specifier %f.

```

#include <stdio.h>
int main()
{
    float radius, diameter, circumference, area;

    printf("Enter radius of circle: ");
    scanf("%f", &radius);

    diameter = 2 * radius;

```

```
circumference = 2 * 3.14159 * radius;
area = 3.14159 * (radius * radius);

printf("Diameter of circle = %.2f \n", diameter);
printf("Circumference of circle = %.2f \n", circumference);
printf("Area of circle = %.2f ", area);
}
```

5. Write a program that reads in two integers and determines and prints if the first is a multiple of the second.

```
#include<stdio.h>

int main()
{
    int n1,n2;
    printf("Enter the two integers number: ");
    scanf("%d %d",&n1,&n2);

    if(n1%n2==0)

        printf("First number is Multiple of second number");

    else
        printf("First number is not Multiple of second number");

}
```

6. Write a C program that prints the integer equivalents of some uppercase letters, lowercase letters, digits and special symbols. As a minimum, determine the integer equivalents of the following: A B C a b c 0 1 2 \$ * + / and the blank character.

```

#include <stdio.h>

int main()
{
    printf("A = %d\n", 'A');
    printf("B = %d\n", 'B');
    printf("C = %d\n", 'C');
    printf("a = %d\n", 'a');
    printf("b = %d\n", 'b');
    printf("c = %d\n", 'c');
    printf("0 = %d\n", '0');
    printf("1 = %d\n", '1');
    printf("2 = %d\n", '2');
    printf("$ = %d\n", '$');
    printf("* = %d\n", '*');
    printf("+ = %d\n", '+');
    printf("/ = %d\n", '/');
    printf("Blank character = %d\n", ' ');
}

```

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7. The gross remuneration of a company salesman comprises the Basic Salary and certain additional allowances and bonuses as given below:

Salesmen with over 5 years' service receive a 10% additional allowance of Basic Salary each month.

Salesmen working in Colombo (Input character 'C' if the city is Colombo) receive an additional allowance of Rs. 2,500/- per month.

The monthly bonus payment is computed as given below:

Monthly Sales(Rs)	Bonus as a percentage of monthly sales
0-25000	10
25000-50000	12
>=50000	15

Write a program to output the gross monthly remuneration of a salesman.

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

```
int main()
```

```
{
```

```
    float basic_sal,gross_sal,sales;
```

```
    int service_yrs;
```

```
    char city;
```

```
    printf("Enter the basic salary : ");
```

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

```
    printf("Enter the years of the service : ");
```

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

```
    printf("Enter 'C' if the working city is Colombo. If not Enter Any other letter :");
```

```
    scanf("%s",&city);
```

```
    printf("Monthly sales : ");
```

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

```
if (service_yrs>5)

    gross_sal = basic_sal + basic_sal*10/100;

else

    gross_sal = basic_sal;

switch(city)

{

case 'c' :

    gross_sal = gross_sal + 2500;break;

case 'C' :

    gross_sal = gross_sal + 2500;break;

default :gross_sal = gross_sal;

}

if (sales<25000)

    gross_sal = gross_sal + sales*10/100;

else if

    (sales<50000)

    gross_sal = gross_sal + sales*12/100;

else

    gross_sal = gross_sal + sales*15/100;

    printf("Gross salary = %.2f \n",gross_sal);

}
```