

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

```
#include <stdio.h>

int main()
{
    printf("Enter the first number");
    scanf("%d",num1);
    printf("Enter the second number");
    scanf("%d",num2);
    if (num1>num2)
    {
        printf("The highest number is %d\n",num1);
    }
    else if(num2>num1)
    {
        printf("The highest number is %d\n",num2);
    }
    else
    {
        printf("Both number are equal.\n");
    }
}
```

```
return 0;
```

```
}
```

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 num1, num2, num3;
```

```
    int largest, smallest;
```

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

```
    scanf("%d", &num1);
```

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

```
    scanf("%d", &num2);
```

```
    printf("Enter the third number: ");
```

```
    scanf("%d", &num3);
```

```
    largest = num1;
```

```
    smallest = num1;
```

```
    if (num2 > largest)
    {
        largest = num2;
    }
    else if (num2 < smallest)
    {
        smallest = num2;
    }

    if (num3 > largest)
    {
        largest = num3;
    }
    else if (num3 < smallest)
    {
        smallest = num3;
    }

    printf("The largest number is: %d\n", largest);
    printf("The smallest number is: %d\n", smallest);

    return 0;
```

```
}
```

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:

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

Basic Salary Increment

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()
```

```
{
```

```
    char employeeName[100];
```

```
    float basicSalary, newSalary, increment;
```

```
    printf("Enter the employee name ");
```

```
    scanf("%s", employeeName);
```

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

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

```
    if (basicSalary < 5000)
```

```
{  
    increment = 0.05 * basicSalary;  
}  
else if (basicSalary >= 5000 && basicSalary < 10000)  
{  
    increment = 0.1 * basicSalary;  
} else  
{  
    increment = 0.15 * basicSalary;  
}  
  
newSalary = basicSalary + increment;  
  
printf("Employee Name: %s\n", employeeName);  
printf("New Salary: %.2f\n", newSalary);  
  
return 0;  
}
```

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 the radius of the circle");
    scanf("%f", &radius);

    diameter = 2 * radius;
    circumference = 2 * PI * radius;
    area = PI * radius * radius;

    printf("Diameter: %.2f\n", diameter);
    printf("Circumference: %.2f\n", circumference);
    printf("Area: %.2f\n", area);

    return 0;
}
```

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 num1, num2;

    printf("Enter the first number ");
    scanf("%d", &num1);

    printf("Enter the second number");
    scanf("%d", &num2);

    if (num2 != 0 && num1 % num2 == 0)
    {
        printf("%d is a multiple of %d\n", num1, num2);
    } else
    {
        printf("%d is not a multiple of %d\n", num1, num2);
    }

    return 0;
}
```

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.