1.

```c
#include<stdio.h>
int main()
{
  int num1, num2;
  printf("Please Enter the Number One: ");
  scanf("%d", &num1);

  printf("Please Enter the Number Two: ");
  scanf("%d", &num2);

  if(num1>num2)
    printf("The Highest Number is %d", num1);
  else if
    (num2>num1)
    printf("The Highest Number is %d", num2);
  else
    printf("Both are Equal ");

}
```

2.

```c
#include <stdio.h>
int main()
{
  int num1,num2,num3;
  printf("Enter three numbers\n");
  scanf("%d %d %d",&num1,&num2,&num3);

  if(num1<num2 && num1<num3){

    printf("The Smallest Number is: %d\n",num1);
  }
  else if(num2<num3){

    printf("The Smallest Number is: %d\n",num2);
  }
  else{
    printf("The Smallest Number is: %d\n",num3);
  }
  if(num1>num2 && num1>num3){
    printf("The Largest Number is: %d",num1);
  }
  else if(num2>num3){
```

```
      printf("The Largest Number is: %d",num2);
    }
    else{
       printf("The Largest Number is: %d",num3);
    }
    return 0;
}
```

3.

```
#include<stdio.h>
int main()
{
  int basic,incre;
  char empname [100];

  printf("Please Enter Your Name: ");
  scanf("%s", &empname);

  printf("Please Enter your Basic Salary: ");
  scanf("%d", &basic);

  if(basic < 5000)
     incre= (basic *0.05)+basic;

  else if(basic >= 5000 < 10000)
     incre= (basic *0.10)+basic;

  else if(basic >= 10000)
     incre= (basic *0.1)+basic;

  printf("The Name: %s and New Salary is %d ", empname, incre);


}
```

4.

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

 printf( "Radius of the circle: \n" );
```

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

      diameter = radius * 2;
      printf( "The diameter is %f\n", diameter );

      constantValue = 3.14159;
      circumference = constantValue * diameter;
      printf( "The circumference is %f\n", circumference );

      area = constantValue * radius * radius;
      printf("The area of the circle is %f\n", area );

      return 0;
    }
```

5.

```
    #include <stdio.h>
    int main()

    {
      int num1, num2;

      printf( "Enter two numbers: \n" );
      scanf( "%d %d", &num1, &num2 );

      if ( num2 % num1 == 0 )
        {
        printf( "%d is a multiple of %d\n", num2, num1 );
      }

      else {
        printf( "%d is not a multiple of %d\n", num2, num1 );
      }
      return 0;
    }
```

6.

```
    #include <stdio.h>

    int main() {

      printf( "%d %d %d %d %d %d %d %d %d %d %d %d %d\n", 'A', 'B', 'C', 'a', 'b', 'c', '0', '1', '2',
    '$', '*', '+', '/' );
      // Prints: 65 66 67 97 98 99 48 49 50 36 42 43 47
```

```
  return 0;
 }
```

7.

```c
#include <stdio.h>
#include <stdlib.h>
int main()
{
float
basic_salary,sales,years=0,newsalary,sale1=0,sale2=0,sale3=0,city_value=0,year_value=0;
 char city;

printf("enter basic salary ");
scanf("%f",&basic_salary);
printf("enter sales ");
scanf("%f",&sales);
printf("enter service years ");
scanf("%f",&years);
printf("enter city ");
scanf("%s",&city);
if(years>5)
{
year_value = basic_salary * 0.1;
 }
switch (city)
{
case 'c':
city_value = 2500;
break;

 }

if(sales<=25000)
 {
 sale1 = basic_salary * 0.1;
 }
 if(sales>25000 && sales<=50000)
 {
 sale2 = basic_salary * 0.12;
```

```
}
if(sales>50000)
{
sale3 = basic_salary * 0.15;
}

newsalary = basic_salary +city_value+year_value+sale1+sale2+sale3;
printf("new salary is %.2f",newsalary);

return 0;
}
```