1. Write a C program to add two integers.

```
IPO:
Input- Numbers says to add two integers
Process-Adding of numbers of a,b and output the variable a,b.
Output-Output the variable a,b
Program:
#include<stdio.h>
int main()
  int a,b,sum=0;
  printf("enter any two integer:\n");
  scanf("%d %d",&a,&b);
  sum=a+b;
  printf("the sum of %d ",a+b);
  return 0;
}
Output
1
    2. Write a program to swap two numbers using a temporary variable.
IPO:
Input-Number says to swap two numbers.
Process-swapping of numbers of a,b using temporary variable and output the variable.
Output-output the variable.
Program:
#include<stdio.h>
int main()
{
  int a,b,temp;
  printf("enter two numbers");
  scanf("%d%d",&a,&b);
  printf("before swapping:%d %d",a,b);
  temp=a;
  a=b;
  b=temp;
  printf("after swapping:%d %d",a,b);
```

```
return 0;
```

Output

```
enter two numbers
10
20
before swapping:10 20after swapping:20 10
```

3. Write a program to swap two numbers without using a temporary variable.

IPO:

Input-Number says to swap two numbers.

Process-swapping of numbers of a,b without temporary variable and output the variable. Output-output the variable.

Program:

```
#include<stdio.h>
int main()
  int a,b;
  printf("enter two numbers");
  scanf("%d %d",&a,&b);
  printf("before swapping:%d %d",a,b);
  a=a+b;
  b=a-b;
  a=a-b;
  printf("after swapping:%d %d\n",a,b);
 return 0;
}
Output:
1
```

4. Write a program to find the ASCII value of a character.

```
IPO:
```

Input-Number says to find the ASCII value of a character Process- finding the ASCII value of a character and output the variable. Output-output the variable.

```
Program:
```

```
#include<stdio.h>
int main()
{
    char c;
    printf("enter a character");
    scanf("%c",&c);
    printf("ASCII value of %c = %d",c,c);
    return 0;
}

Output:
1
```

5. Write a program to calculate the area and perimeter of a rectangle.

IPO:

Input-Number says to calculate the area and perimeter of a rectangle Process- To calculate the area and perimeter of a rectangle and output the variable. Output-output the variable.

Program:

```
#include<stdio.h>
int main()
{
    int a,b,area,perimeter;
    printf("enter slides:\n");
    scanf("%d %d",&a,&b);
    area=a*b;
    perimeter=2*(a+b);
    printf("area=%d\n",area);
    printf("perimeter=%d",perimeter);
    return 0;
}
```

Output:

```
enter slides:
20
4
area=80
perimeter=48
```

6. Write a program to compute the simple interest.

IPO:

Input-Number says to compute the simple interest Process- Computing the simple interest and output the variable. Output-output the variable.

Program:

```
#include<stdio.h>
int main()
{
    float p,r,t,si;
    printf("enter principle amount:");
    scanf("%f",&p);
    printf("enter rate of interest:");
    scanf("%f",&r);
    printf("enter time period:");
    scanf("%f",&t);
    si=(p*r*t)/100;
    printf("simple interest:%.2f\n ",si);
    return 0;
}
```

```
Output:
```

1

7. Write a program to convert temperature from Celsius to Fahrenheit.

IPO:

scanf("\n%d",&num1);

Input-Number says to convert temperature from Celsius to Fahrenheit.

Process- convert temperature from Celsius to Fahrenheit and output the variable.

Output-output the variable.

```
Program:
#include<stdio.h>
int main()
 float celsius, fahrenheit;
  printf("enter temperature in celsius:");
  scanf("%f",&celsius);
  fahrenheit=(celsius*9.0/5.0)+32;
  printf("Temperature in fahrenheit:%.2f\n",fahrenheit);
 return 0;
}
Output:
1
    8. Write a program to find the quotient and remainder of two integers.
IPO:
Input-Number says to find the quotient and remainder of two integers.
Process- To find the quotient and remainder of two integers and output the variable.
Output-output the variable.
Program:
#include<stdio.h>
int main()
 int num1,num2,q,r;
  printf("\n enter the number 1:");
```

```
printf("\n enter the number 2:");
  scanf("\n%d",&num2);
  q=num1/num2;
  r=num1%num2;
  printf("\n the quotient is %d",q);
  printf("\n the remainder is %d",r);
 return 0;
}
Output:
1
    9. Write a program to check whether a number is even or odd.
IPO:
Input-Number says to check whether a number is even or odd
Process- To check whether a number is even or odd and output the variable.
Output-output the variable.
Program:
#include<stdio.h>
int main()
  int a;
  scanf("%d",&a);
  if(a\%2==0)
    printf(" %d number is even \n",a);
  }
  else
    printf("%d number is odd \n",a);
  }
  return 0;
}
```

Output:

33 33 number is odd

88 88 number is even

10. Write a program to calculate the square and cube of a number.

IPO:

Input-Number says to calculate the square and cube of a number.

Process- To calculate the square and cube of a number and output the variable.

Output-output the variable.

Program:

```
#include<stdio.h>
int main()
{
    int n,s,c;
    printf("enter number:");
    scanf("%d",&n);
    s=n*n;
    c=n*n*n;
    printf("%d %d",s,c);
    return 0;
}
```

Output:

enter number:7

49 343