1. Add Two Integers

IPO:

Input: Two integers

Process: Add the integers

Output: Sum of integers

```
#include<stdio.h>
int main(){
   int a,b,sum;
   printf("Enter two integers: ");
   scanf("%d%d",&a,&b);
   sum=a+b;
   printf("Sum=%d",sum);
   return 0;
}
```

Output:

```
Enter two integers: 4 5
Sum=9
```

---

2. Swap Two Numbers Using Temporary Variable

IPO:

Input: Two integers

Process: Swap using temporary variable

Output: Swapped values

```
#include<stdio.h>
int main(){
   int a,b,temp;
   printf("Enter two numbers: ");
   scanf("%d%d",&a,&b);
   temp=a;
   a=b;
   b=temp;
   printf("After swapping: a=%d b=%d",a,b);
   return 0;
}
```

Output:

```
Enter two numbers: 3 7
After swapping: a=7 b=3
```

---

3. Swap Two Numbers Without Temporary Variable

IPO:

Input: Two integers

Process: Swap using arithmetic operations

Output: Swapped values

```
#include<stdio.h>
int main(){
   int a,b;
   printf("Enter two numbers: ");
   scanf("%d%d",&a,&b);
   a=a+b;
   b=a-b;
   a=a-b;
   printf("After swapping: a=%d b=%d",a,b);
   return 0;
}
```

Output:

Enter two numbers: 5 9

After swapping: a=9 b=5

---

4. Find ASCII Value of a Character

IPO:

Input: A character

Process: Find ASCII using %d

Output: ASCII value

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

Output:

Enter a character: A

ASCII value of A=65

---

5. Area and Perimeter of Rectangle

IPO:

Input: Length and breadth

Process: Area=lengthbreadth, Perimeter=2(length+breadth)

Output: Area and perimeter

```
#include<stdio.h>
int main(){
   float l,b,area,peri;
   printf("Enter length and breadth: ");
   scanf("%f%f",&l,&b);
   area=l*b;
   peri=2*(l+b);
   printf("Area=%.2f Perimeter=%.2f",area,peri);
   return 0;
}
```

Output:

Enter length and breadth: 5 3

Area=15.00 Perimeter=16.00

---

6. Compute Simple Interest

IPO:

Input: Principal, rate, time

Process: SI=(PRT)/100

Output: Simple interest

```
#include<stdio.h>
int main(){
   float p,r,t,si;
   printf("Enter principal, rate, time: ");
   scanf("%f%f%f",&p,&r,&t);
   si=(p*r*t)/100;
   printf("Simple Interest=%.2f",si);
   return 0;
```

}

Output:

Enter principal, rate, time: 1000 5 2

Simple Interest=100.00

---

7. Celsius to Fahrenheit

IPO:

Input: Temperature in Celsius

Process: F=(C*9/5)+32

Output: Temperature in Fahrenheit

```
#include<stdio.h>
int main(){
   float c,f;
   printf("Enter temperature in Celsius: ");
   scanf("%f",&c);
   f=(c*9/5)+32;
   printf("Fahrenheit=%.2f",f);
```

```
    return 0;
}
```

Output:

```
Enter temperature in Celsius: 25
Fahrenheit=77.00
```

---

8. Find Quotient and Remainder

IPO:

Input: Dividend and divisor

Process: Quotient=dividend/divisor, Remainder=dividend%divisor

Output: Quotient and remainder

```
#include<stdio.h>
int main(){
    int a,b,q,r;
    printf("Enter dividend and divisor: ");
    scanf("%d%d",&a,&b);
    q=a/b;
```

```
    r=a%b;
    printf("Quotient=%d Remainder=%d",q,r);
    return 0;
}
```

Output:

```
Enter dividend and divisor: 17 5
Quotient=3 Remainder=2
```

---

9. Check Number is Even or Odd

IPO:

Input: An integer

Process: If num%2==0 → even else odd

Output: Even or Odd

```
#include<stdio.h>
int main(){
    int n;
    printf("Enter a number: ");
```

```
    scanf("%d",&n);
    if(n%2==0)
        printf("Even");
    else
        printf("Odd");
    return 0;
}
```

Output:

Enter a number: 6

Even

---

10. Square and Cube of a Number

IPO:

Input: An integer

Process: Square=nn, Cube=nn*n

Output: Square and cube

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

```
int main(){
   int n,sq,cu;
   printf("Enter a number: ");
   scanf("%d",&n);
   sq=n*n;
   cu=n*n*n;
   printf("Square=%d Cube=%d",sq,cu);
   return 0;
}
```

Output:

```
Enter a number: 4
Square=16 Cube=64
```