

```
int num;
    printf("Enter a number");
   scanf("%d", &num);
   printf("Number is %d", num);
   return 0;
}
```

3. WAP. to accept two numbers and print their addition, subtraction, multiplication, division.

```
Test Data
                                                                                           Q
Enter 2 number: 5 10
Expected Output
                                                                                           Q
Addition = 15
Subtraction = -5
Multiplication = 50
Division = 0
Source Code
                                                                                           Q
#include <stdio.h>
int main(){
    int add, mul, sub, div, num1, num2;
    printf("\nEnter 2 number:");
    scanf("%d %d", &num1, &num2);
    add = num1 + num2;
    sub = num1 - num2;
    mul = num1 * num2;
    div = num1 / num2;
    printf("Addition = %d \nSubtraction = %d \nMultiplication = %d \nDivision = %d"
    , add, sub, mul, div);
   return 0;
}
```

4. WAP. to input a number and change the sign.

```
Q
Enter a number: 5
Enter a number: -5
Expected Output
                                                                                           Q
Changed number = -5
Changed number = 5
Source Code
                                                                                           Q
#include <stdio.h>
int main(){
   int num;
    printf("Enter a number: ");
   scanf("%d", &num);
   num = num * -1;
   printf("Changed number = %d", num);
   return 0;
}
```

5. WAP. to input two number and display quotient and remainder.

Test Data

```
input number : 98 4

Expected Output
```

Q

Source Code

quotient = 24
remainder = 2

```
#include <stdio.h>

int main(){
    int dividend, divisor, quotient, remainder;

printf("Enter Dividend and Division: ");
    scanf("%d %d", &dividend, &divisor);

quotient = dividend / divisor;
    remainder = dividend % divisor;

printf("Quotient = %d Remainder = %d", quotient, remainder);
```

```
return 0;
}
```

6. WAP. to display last digit of a number.

```
Test Data
                                                                                           Q
Enter a number: 153
Expected Output
                                                                                           Q
Last digit = 3
Source Code
                                                                                           Q
#include <stdio.h>
int main(){
   int num;
   printf("Enter a number: ");
   scanf("%d", &num);
   num = num \% 10;
   printf("Last digit = %d", num);
   return 0;
}
```

7. WAP. to accept a number from user and print it's square & cube in C language.

Test Data

Enter a number = 5

Expected Output

Square = 25 Cube = 125

Source Code

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

```
int num, cube, square;

printf("Enter a number: ");
scanf("%d", &num);

cube = num * num * num;
square = num * num;

printf("Square: %d Cube: %d \n", square, cube);

return 0;
}
```

8. WAP. to calculate Area and Circumference of a Circle.

Formula

Area of a Circle = πr^2

Circumference of a circle = $2\pi r$

Test Data

```
Enter Radius: 15
```

Expected Output

```
Area of a circle = 78.525002

Circumference of a circle = 31.410000
```

```
#include <stdio.h>

int main(){

   float area, circum, radius, pi = 3.14153;

   printf("\nEnter Radius: ");
   scanf("%f", &radius);

   area = radius * radius * pi;
   circum = 2 * pi * radius;

   printf("Area of the circle: %f \n", area);
   printf("Circumference of the circle: %f \n", circum);

   return 0;
}
```

```
9. WAP. to input a number to compute the perimeter and area of a rectangle.
  Formula
Perimeter of the rectangle = 2(height + width)
Area of Rectangle = height * width
  Test Data
                                                                                          Q
  Enter height and width of the rectangle respectively: 12 5
  Expected Output
                                                                                          Q
  Area of a rectangle = 60 square inches
  Perimeter of a rectangle = 34 inches
  Source Code
                                                                                          Q
  #include <stdio.h>
  int main(){
     int height, width, area, perimeter;
     printf("Enter height and width of the rectangle respectively: ");
      scanf("%d %d", &height, &width);
      area = height * width;
     perimeter = 2 * (height + width);
      printf("Area of a rectangle = %d square inches
      \nPerimeter of a rectangle = %d inches", area, perimeter);
      return 0;
  }
10. WAP. to Calculate Percentage of 5 Subjects.
  Test Data
                                                                                          Q
  Enter marks of 5 subjects:72 93 56 80 57
  Expected Output
                                                                                          Q
  Your Overall Percentage: 71.599998
  Source Code
                                                                                          Q
  #include <stdio.h>
```

```
int main(){
    float sanskrit, math, eng, hin, accounts, percentage, total;

printf("Enter marks of 5 subjects:");
    scanf("%f %f %f %f %f", &sanskrit, &hin, &eng, &math, &accounts);

total = sanskrit + hin + eng + math + accounts;
    percentage = total / 500 * 100;

printf("\nTotal Marks = %f \nYour Overall Percentage: %f", total,
    percentage);

return 0;
}
```

11. WAP. to Calculate Simple Interest.

```
Formula
```

```
Simple Interest = (p*r*t)/100;

\mathbf{p} = Principal, \mathbf{r} = Rate of interest, \mathbf{t} = Time period

Test Data
```

```
Enter Principal Amount: 4500
Enter Rate of Interest: 9.5
Enter Time: 6
```

Expected Output

```
Simple interest: 2565.000000
```

```
#include <stdio.h>

int main(){

   float si, amount, interest, time;

   printf("Enter Principal Amount: ");
   scanf("%f", &amount);

   printf("Enter Rate of Interest: ");
   scanf("%f", &interest);

   printf("Enter Time: ");
   scanf("%f", &time);

   si = (amount * interest * time) / 100;
   printf("Simple interest: %f", si);
```

```
return 0;
}
```

12. WAP. to print area of a triangle.

Formula

```
Triangle = 0.5 * Base * Height
```

Test Data

```
Enter BASE and HEIGHT: 15 30

Expected Output

Area of Triangle: 225.000000

COUNTY

Source Code
```

```
#include <stdio.h>

int main(){

    float area, base, height;

    printf("Enter BASE and HEIGHT: ");
    scanf("%f %f", &base, &height);

    area = 0.5 * base * height;

    printf("Area of Triangle : %f", area);

    return 0;
}
```

13. WAP. to accept marks of 3 subjects of a student, Calculate total of 3 subjects and average in c language

Formula

Average = Sanskrit + Hindi + Math/3

Test Data

```
Enter Marks of 3 subjects: 75 50 80
```

Expected Output

```
Q
  Total marks: 205.000000
  Average marks: 68.333336
  Source Code
                                                                                            Q
  #include <stdio.h>
  int main(){
     float sub1, sub2, sub3, average, total;
      printf("Enter marks of 3 subjects: ");
      scanf("%f %f %f", &sub1, &sub2, &sub3);
     total = (sub1 + sub2 + sub3);
      average = total / 3;
      printf("\nTotal marks: %f", total);
      printf("\nAverage marks: %f", average);
     return 0;
  }
14. WAP. to input paisa and convert it into rs. and paisa
  Test Data
                                                                                            Q
  Enter paisa:2150
  Expected Output
                                                                                            Q
  Total 21 Rs. and 50 Paisa
  Source Code
                                                                                            Q
  #include <stdio.h>
  int main(){
     int paisa, rs;
      printf("Enter paisa:");
      scanf("%d", &paisa);
     rs = paisa / 100;
      paisa = paisa % 100;
      printf("Total %d Rs. and %d Paisa", rs, paisa);
```

return 0;

}

15. WAP. to print the following outputs: https:\\www.google.com in C language

Expected Output

```
Google Link: https:\\www.google.com\

Source Code

#include <stdio.h>

int main(){

printf("Google Link: https:\\\\www.google.com\\ ");

return 0;
}
```

16. WAP. For Converting Temperature Celsius Into Fahrenheit and Fahrenheit to Celsius

Formula

```
Fahrenheit = ((9/5)*c)+32 // or you can use 1.8 in place of 9/5 celsius = (f-32)\times 5/9
```

Test Data

```
Enter Celsius or Fahrenheit: 55
```

Expected Output

```
Celsius to Fahrenheit: 131.000000
Fahrenheit to Celsius: 12.777778
```

```
#include <stdio.h>

int main(){
   float celFah, fahrenheit, celsius;

printf("\nEnter Celsius or Fahrenheit: ");
   scanf("%f", &celFah);

fahrenheit = (9.0 / 5.0 * celFah) + 32.0;
   celsius = (celFah - 32.0) * (5.0 / 9.0);
```

```
printf("\nCelsius to Fahrenheit: %f", fahrenheit);
    printf("\nFahrenheit to Celsius: %f", celsius);
   return 0;
}
```

17. WAP. to Calculate Gross Salary of an Employee whose dearness allowance is

```
40% of basic salary and house rent allowance is 20% of basic salary.
  Formula
Gross Salary = b + da + o
b = Basic Salary, da = Dearness Allowance o = Other Allowance
  Test Data
                                                                                           Q
  Enter Basic Salary: 20000
  Expected Output
                                                                                           Q
  Gross Salary = 32000
  Source Code
                                                                                           Q
  #include <stdio.h>
  int main(){
     int gs, bs, da, hra;
      printf("Enter Basic salary: ");
     scanf("%d", &bs);
      da = bs * 40 / 100;
      hra = bs * 20 / 100;
      gs = bs + da + hra;
      printf("Gross Salary = %d \n", gs);
      return 0;
  }
```

18. WAP. to print profit and profit percentage. Selling price and cost price is given by user.>

Formula

Profit = selling - cost

```
Profit Percentage = \frac{profit}{cost} * 100
  Test Data
  Enter Selling price and Cost price respectively: 200 150
  Expected Output
Total Profit = 50% and Profit percentage = 33%
  Source Code
                                                                                              Q
  int main(){
      int profit, profitPercentage, sellingPrice, costPrice;
      printf("Enter Selling price and Cost price respectively: ");
      scanf("%d %d", &sellingPrice, &costPrice);
      profit = sellingPrice - costPrice;
      profitPercentage = (profit * 100) / costPrice;
      printf("Total Profit = %d%% and Profit percentage = %d%%",
      profit, profitPercentage);
      return 0;
  }
19. WAP. to calculate the remainder of 2 numbers without using % operator.
  Test Data:
                                                                                              Q
  Enter 2 number: 10 5
  Expected Output:
                                                                                              Q
  Remainder = 0
  Source Code
                                                                                              ſŪ
  #include <stdio.h>
  int main(){
      int divisor, dividend, remainder, quotient;
      printf("Enter 2 dividend and divisor: ");
      scanf("%d %d", &dividend, &divisor);
      remainder = dividend - divisor * (dividend / divisor);
      printf("\nRemainder = %d", remainder);
```

```
return 0;
}
```

20. WAP. that accepts two item's weight (floating points' values) and number of purchase (floating points' values) and calculate the average value of the items.

Test Data:

```
Weight - Item1: 15
No. of item1: 5
Weight - Item2: 25
No. of item2: 4
```

Expected Output:

```
Average Value = 19.444444
```

Source Code

```
ſŪ
#include <stdio.h>
int main(){
   float weight1, weight2, itemNum1, itemNum2, average;
    printf("Weight - Item1: ");
    scanf("%f", &weight1);
    printf("No. of Item1: ");
   scanf("%f", &itemNum1);
    printf("Weight - Item2: ");
   scanf("%f", &weight2);
   printf("No. of Item1: ");
   scanf("%f", &itemNum2);
    average = (weight1 * itemNum1 + weight2 * itemNum2) / (itemNum1 + itemNum2);
    printf("Average value of the item = %f", average);
    return 0;
}
```

21. WAP. to show swap of two numbers.

```
i) using three variable

ii) without using third variable.
```

```
iii) swap within a single line.
Test Data:
                                                                                           Q
Input two number a and b: 5 10
Expected Output:
a = 10 and b = 5
Source Code
                                                                                           Q
#include <stdio.h>
int main(){
   int a, b, temp;
   printf("Enter two number a and b:");
   scanf("%d %d", &a, &b);
   // swap two number using third variable.
   // temp = a;
   // a = b;
   // b = temp;
   // Swap two number without using third variable.
   // a = a + b;
   // b = a - b;
   // a = a - b;
   // Swap two number within single line.
   b = a + b - (a = b);
   printf("a = %d and b = %d", a, b);
    return 0;
}
```

22. WAP. to SWAP three numbers (any format).

```
i) using four variableii) without using four variable.iii) swap within a single line.
```

Test Data:

Enter 3 number : 5 10 15

Expected Output:

```
changed number = 15 5 10
```

Source Code

```
Q
#include <stdio.h>
int main(){
   int a, b, c, temp;
    printf("Enter 3 number a, b and c: ");
   scanf("%d %d %d", &a, &b, &c);
   // using four variable
   // temp = a;
   // a = b;
   // b = c;
   // c = temp;
   // Without using four variable.
   // a = a + b + c;
   // b = a - b - c;
   // c = a - b - c;
   // a = a - b - c;
   // Swap numbers within a single line.
   a = (temp = a + b + c) - (b = temp - b - c) -
    (c = temp - b - c);
   printf("Changed number = %d %d %d", a, b , c);
   return 0;
}
```

23. WAP. to merge three number. E.g. a = 1, b = 2, c = 8 is 128.

Test Data:

```
Enter 3 number: 1 2 3
```

Expected Output:

```
merge number = 123
```

```
#include <stdio.h>

int main(){
   int a, b, c, merge;
```

```
printf("Enter 3 number:\n");
   scanf("%d %d %d", &a, &b, &c);
   merge = a * 10;
   merge = merge + b;
   merge = merge * 10;
   merge = merge + c;
    printf("merge number = %d", merge);
   return 0;
}
```

24 .WAP. to Print the range of a number. E.g. number 78 is between 70 and 79, 102 is between 100 and 109.

Test Data:

```
Q
Enter a number: 78
Enter a number : 102
Expected Output:
                                                                                          Q
78 number is between 70 and 79
102 number is between 100 and 109
Source Code
                                                                                          Q
#include <stdio.h>
int main(){
   int num, x, y;
   printf("Enter a number:");
   scanf("%d", &num);
   x = num / 10 * 10;
   y = x + 9;
   printf("%d number is between %d and %d", num, x, y);
   return 0;
}
```

25. WAP. to input a 3 digit number and reverse it.

```
Q
  number = 123
  Expected Output:
                                                                                           0
  reverse number = 321
  Source Code
                                                                                           Q
  #include <stdio.h>
  int main(){
     int num, rev, rem;
      printf("Enter a 3 digit number: ");
      scanf("%d", &num);
      rem = num % 10;
      num = num / 10;
      rev = rev * 10 + rem;
     rem = num % 10;
     num = num / 10;
     rev = rev * 10 + rem;
     rem = num % 10;
     num = num / 10;
     rev = rev * 10 + rem;
     printf("Reverse number = %d\n", rev);
      return 0;
  }
26. WAP. to calculate sum of the digits of three digit number.
```

Test Data

int num, sum = 0;

scanf("%d", &num);

printf("Enter a number: ");

```
Enter a 3 digit number: 123

Expected Output

Sum = 6

Source Code

#include <stdio.h>

int main(){
```

```
sum = sum + num % 10;
num = num / 10;
sum = sum + num % 10;
sum = sum + num / 10;
printf("Sum = %d", sum);
return 0;
}
```

27. WAP. to input a 5 digit number and calculate the sum of last and first digit number.

Test Data:

```
Q
number : 12345
Expected Output:
                                                                                          Q
sum = 6
Source Code
                                                                                          Q
#include <stdio.h>
int main(){
   int num, sum;
   printf("Enter a 5 digit number: ");
   scanf("%d", &num);
   sum = (num % 10) + (num / 10000);
   printf("Sum = %d", sum);
   return 0;
}
```

28. WAP. to convert specified days into years, weeks and days.

Note: Ignore leap year.

Test Data

```
Enter number of days: 415
```

Expected Output

```
Q
  Years = 1 Weeks = 7 \text{ Days} = 1
  Source Code
                                                                                             Q
  #include <stdio.h>
  int main(){
     int days, years, weeks;
      printf("Enter number of days: ");
      scanf("%d", &days);
     years = days / 365;
     weeks = (days \% 365) / 7;
     days = (days \% 365) \% 7;
     printf("Years = %d Weeks = %d Days = %d", years, weeks, days);
     return 0;
  }
29. WAP. to convert a given integer (in seconds) to hours, minutes and seconds.
  Test Data:
                                                                                             Q
  Input seconds: 25300
  Expected Output:
                                                                                             Q
  There are:
 H:M:S - 7:1:40
  Source Code
                                                                                             ф
  #include <stdio.h>
  int main(){
     int seconds, minutes, hours;
      printf("Enter seconds: ");
     scanf("%d", &seconds);
     hours = seconds / 3600;
     seconds = seconds % 3600;
     minutes = seconds / 60;
     seconds = seconds % 60;
      printf("\nThere are:\nH:M:S - %d:%d:%d", hours, minutes, seconds);
     return 0;
```

}

30. WAP. to convert a given integer (in millimeters) to kilometers, meters and centimeters.

```
ſŪ
1 centimeter = 10 millimeters.
1 meter = 100 centimeters.
1 meter = 1,000 millimeters.
1 kilometer = 1,000 meters.
Test Data:
                                                                                            Q
Input millimeters: 2535220
Expected Output:
                                                                                            Q
2.53 kilometers
2535.22 Meters
253522.0 Centimeters
Source Code
                                                                                            Q
#include <stdio.h>
int main(){
   float millimeters, kilometers, meters, centimeters;
    printf("Enter millimeters:");
    scanf("%f", &millimeters);
   centimeters = millimeters / 10;
    meters = centimeters / 100;
    kilometers = meters / 1000;
    printf("Kilometers = %f Meters = %f Centimeters = %f",
    kilometers, meters, centimeters);
   return 0;
}
```

31. WAP. to read an amount (integer value) and break the amount into smallest possible number of bank notes.

Test Data:

```
Input the amount: 375
```

```
There are:

3 Note(s) of 100.00

1 Note(s) of 50.00

1 Note(s) of 20.00

0 Note(s) of 10.00

1 Note(s) of 5.00

0 Note(s) of 2.00

0 Note(s) of 1.00
```

Source Code

```
Q
#include <stdio.h>
int main(){
   int amount, hundred, fifty, twenty, ten, five, two, one;
    printf("Enter amount: ");
    scanf("%d", &amount);
    hundred = amount / 100;
   fifty = (amount % 100) / 50;
   twenty = ((amount % 100) % 50) / 20;
    amount = ((amount % 100) % 50) % 20;
   ten = amount / 10;
    amount = amount % 10;
   five = amount / 5;
    amount = amount % 5;
   two = amount / 2;
    amount = amount % 2;
    one = amount;
    printf("\n%d Note(s) of 100.00", hundred);
    printf("\n%d Note(s) of 50.00", fifty);
    printf("\n%d Note(s) of 20.00", twenty);
    printf("\n%d Note(s) of 10.00", ten);
   printf("\n%d Note(s) of 5.00", five);
    printf("\n%d Note(s) of 2.00", two);
    printf("\n%d Note(s) of 1.00", one);
   return 0;
}
```

32. Write a C program to calculate the distance between the two points

Formula

```
\sqrt{(x_1-x_2)^2+(y_1+y_2)^2}
```

Test Data:

```
Input x1: 25
Input y1: 15
```

```
Input x2: 35
 Input y2: 10
  Expected Output:
                                                                                            Q
 Distance between the said points: 11.1803
  Source Code
                                                                                            Q
 #include <stdio.h>
 #include <math.h>
 int main(){
     float x1, x2, y1, y2, distance;
     printf("Enter x1, y1, x2 and y2 respectively:");
     scanf("%f %f %f %f", &x1, &y1, &x2, &y2);
     distance = sqrt(pow((x1 - x2), 2) + pow((y1 - y2), 2));
     printf("The distance between the two points = Square root(%f)", distance);
     return 0;
 }
33. WAP. to Print the Ascii Value of the Character.
  Test Data
                                                                                            Q
 Enter The Character: c
  Expected Output
                                                                                            Q
 Value = 99
  Source Code
                                                                                            Q
 #include <stdio.h>
 int main(){
     char a;
     printf("Enter The Character: ");
     scanf("%c", &a);
     printf("Value = %d", a);
     return 0;
 }
```

34. WAP. to accept 3 characters and print the sum of their ascii.

Test Data

```
Q
Enter 3 character: a b c
Expected Output
                                                                                          Q
Sum of the 3 character = 294
Source Code
                                                                                          Q
#include <stdio.h>
int main(){
   char a, b, c;
   int sum;
   printf("Enter 3 character: ");
   scanf("%c %c %c", &a, &b, &c);
   sum = (int)a + (int)b + (int)c;
   printf("Sum of the 3 character = %d", sum);
   return 0;
}
```

35. WAP. to Display The Size of Different Data Types

Data Type	Size (bytes)	Range	Format Specifier
int	2	-2,147,483,648 to 2,147,483,647	%d
long int	4	-2,147,483,648 to 2,147,483,647	%ld
float	4	1.2E-38 to 3.4E+38	%f
double	8	1.7E-308 to 1.7E+308	%lf
long double	12	3.4E-4932 to 1.1E+4932	%Lf
char	1	-128 to 127	%с

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

```
printf("Size of Int Data Types in C = %2d bytes \n", sizeof(short int));

printf("Size of Long Int Data Types in C = %2d bytes \n", sizeof(long int));

printf("Size of Float Data Types in C = %2d bytes \n", sizeof(float));

printf("Size of Double Data Types in C = %2d bytes \n", sizeof(double));

printf("Size of Long Double Data Types in C = %2d bytes \n", sizeof(long double));

printf("Size of Char Data Types in C = %2d bytes \n", sizeof(char));

return 0;
}
```

If/Else Statement

1. WAP. to print greatest among the two numbers.

Test Data

```
Enter 2 Numbers: 15 20

Expected Output
```

Greater number = 20

```
#include <stdio.h>

int main(){
   int num1, num2, great;

   printf("Enter 2 numbers: ");
   scanf("%d %d", &num1, &num2);

if(num1 > num2)
     great = num1;
   else
     great = num2;

   printf("\nGreater number = %d", great);
   return 0;
}
```

2. WAP. to check the given number is positive or negative. Test Data Enter a number: 15 **Expected Output** Q Number is 'Positive'. Source Code Q #include <stdio.h> int main(){ int num; printf("Enter a number:"); scanf("%d", &num); **if**(num < 0) printf("number is 'Negative'."); printf("number is 'Positive'."); return 0; } 3. WAP. to check the given number is even or odd. Test Data Q Enter a number: 12 **Expected Output** Q number is 'Even'. Source Code Q #include <stdio.h> int main(){ int num; printf("\nEnter a number:"); scanf("%d", &num); **if**(num % 2 == 0) printf("\nnumber is 'Even'."); else

```
printf("\nnumber is 'Odd'.");
return 0;
}
```

4. WAP. to check the person is eligible for vote or not.

Test Data Q Enter your age: 17 **Expected Output** Q Your are not eligible for vote. Source Code Q #include <stdio.h> int main(){ int age; printf("\nEnter your age:"); scanf("%d", &age); **if**(age < 18) printf("\nYour are not eligible for vote."); printf("\nYour are eligible for vote."); return 0; }

5. WAP. to input a character and check whether it is vowel or consonant.

Test Data

char ch;

```
Enter a character: a

Expected Output

Character is 'Vowel'.

Source Code

#include <stdio.h>

int main(){
```

6. WAP. to check the given year is leap year or not.

Test Data

```
Q
Enter a year: 2023
Expected Output
                                                                                           Q
Not a leap year
Source Code
                                                                                           Q
#include <stdio.h>
int main(){
   int year;
    printf("Enter a year:");
   scanf("%d", &year);
   if(year % 4 == 0 && year % 100 != 0 || year % 400 == 0)
       printf("\nYear is Leap Year.");
    else
       printf("\nYear is Not a Leap Year.");
   return 0;
}
```

7. WAP. to check the given number is buzz number or not.

Buzz number

Buzz numbers are those numbers that are *divisible by 7* or *end with 7*.

Test Data

```
Q
  Enter a number: 47
  Expected Output
                                                                                          0
  47 is a Buzz Number.
  Source Code
                                                                                          Q
  #include <stdio.h>
  int main(){
     int num;
      printf("\nEnter a number:");
     scanf("%d", &num);
     if(num % 7 == 0 || num % 10 == 7)
         printf("%d is a Buzz number.", num);
         printf("%d is not a Buzz number.", num);
     return 0;
  }
8. WAP. to input cost and sales price and calculate percentage of profit or loss.
```

```
Enter Cost price and Sales price : 20 45
```

Expected Output

Test Data

```
Total Profit = 25 and Percentage of Profit =
```

```
#include <stdio.h>

int main(){
   int costPrice, sellingPrice, profit, perProfit, loss, perLoss;

printf("Enter Cost price and Sales price: ");
   scanf("%d %d", &costPrice, &sellingPrice);

if(costPrice > sellingPrice){
   loss = costPrice - sellingPrice;
   perLoss = loss * 100 / costPrice;
   printf("\nTotal Loss = %dRs. and Percentage of Loss = %d%",
   loss, perLoss);
} else{
```

```
profit = sellingPrice - costPrice;
    perProfit = profit * 100 / costPrice;
    printf("\nTotal Profit = %dRs. and Percentage of Profit = %d%%",
        profit, perProfit);
}

return 0;
}
```

9. WAP. to input two number and check they are proper division or not.

Test Data Q Enter 2 numbers: 45 90 Enter 2 numbers: 45 5 **Expected Output** Q They are not a proper division. They are a proper division. Source Code Q #include <stdio.h> int main(){ int num1, num2; printf("\nEnter 2 number:"); scanf("%d %d", &num1, &num2); if(num1 % num2 == 0) printf("\nThey are a proper division."); printf("\nThey are not a proper division.");

10. WAP. to input age and marks. If age >= 18 and marks >= 80 then the student is eligible for admission otherwise not.

Test Data

```
Enter age and marks: 18 85
```

Expected Output

return 0;

}

```
Q
  You are eligible for Admission.
  Source Code
                                                                                          0
  #include <stdio.h>
  int main(){
     int age, marks;
     printf("\nEnter your age and marks:");
     scanf("%d %d", &age, &marks);
     if(age >= 18 && marks >= 80)
         printf("\nYou are eligible for admission.");
          printf("\nYou are not eligible for admission.");
     return 0;
  }
11. WAP. to check the given number is perfect square or not.
  Test Data
                                                                                          Q
```

```
Enter a number: 25

Expected Output

25 is a Perfect Square.

Source Code

#include <stdio.h>
```

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

int main(){
    int num, sqr;

    printf("\nEnter a number:");
    scanf("%d", &num);

    sqr = sqrt(num);

    if(sqr * sqr == num)
        printf("%d is a Perfect Square.", num);
    else
        printf("%d is not a Perfect Square.", num);
    return 0;
}
```

12. WAP. to check the given number is 3 digit number or not.

Test Data

```
Q
Enter a number: 22
Expected Output
                                                                                            Q
22 is not a 3 digit number
Source Code
                                                                                            Q
#include <stdio.h>
int main(){
   int num;
   printf("\nEnter a number:");
   scanf("%d", &num);
   if(num > 99 && num < 1000)</pre>
        printf("\n%d is a 3 digit number.", num);
        printf("\n%d is not a 3 digit number.", num);
   return 0;
}
```

13. WAP. to calculate greatest among the 3 numbers.

Test Data

```
Enter 3 numbers: 15 20 25

Expected Output

Greater number is 25

Source Code

#include <stdio.h>

int main(){
   int num1, num2, num3, great;
   printf("\nEnter 3 numbers:");
   scanf("%d %d %d", &num1, &num2, &num3);
```

```
if(num1 > num2 && num1 > num3)
    great = num1;
else if(num1 < num2 && num2 > num3)
    great = num2;
else
    great = num3;

printf("Greater number = %d", great);
return 0;
}
```

```
14. WAP. to calculate the grade of a student after the input of marks of that
student.
  Grade
Percentage >= 90 grade is 'A'
Percentage >= 70 grade is 'B'
Percentage >= 50 grade is 'C'
Percentage >= 35 grade is 'D'
Percentage < 35 grade is 'F'
  Test Data
                                                                                            Q
  Enter marks: 80
  Expected Output
                                                                                            Q
  Grade is 'B'.
  Source Code
                                                                                            Q
  #include <stdio.h>
  int main(){
      int marks;
      printf("\nEnter marks:");
      scanf("%d", &marks);
     if(marks >= 90)
          printf("\nGrade is 'A'.");
      else if(marks >= 70)
          printf("\nGread is 'B'.");
      else if(marks >= 50)
         printf("\nGread is 'C'.");
      else if(marks >= 35)
          printf("\nGread is 'D'.");
```

```
else
    printf("\nGread is 'F'.");
return 0;
}
```

15. WAP. to Calculate Telephone Bill:-

calls	Rate/call	
First 50 calls	free	
next 100 calls	Rs.3/call	
next 200 calls	Rs.5/call	
next 350 calls	Rs.7/call	

Test Data

```
Enter numbers of call: 155
```

Expected Output

```
Total Telephone Bill = 325
```

```
Q
#include <stdio.h>
int main(){
   int calls, totalBill;
    printf("\nEnter numbers of call:");
    scanf("%d", &calls);
   if(calls <= 50)</pre>
        totalBill = 0;
    else if(calls > 50 && calls < 150)</pre>
       totalBill = (calls - 50) * 3;
    else if(calls > 150 && calls < 350)</pre>
        totalBill = 300 + (calls - 150) * 5;
    else
        totalBill = 1300 + (calls - 350) * 7;
    printf("\nTotal Telephone Bill = %d", totalBill);
   return 0;
}
```



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