

```
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'.");
       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 Q Enter a character: a **Expected Output** Q Character is 'Vowel'. Source Code Q #include <stdio.h> int main(){ char ch; printf("Enter a character:"); scanf("%c", &ch); if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' || ch == 'A' || ch == 'E' || ch == 'I' || ch == '0' || ch == 'U') printf("Character is 'Vowel'."); else printf("Character is 'Consonant'.");

```
return 0;
}
```

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.");
       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

```
Enter a number: 47

Expected Output

47 is a Buzz Number.
```

```
#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);

else
    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.

Test Data Q Enter Cost price and Sales price : 20 45 **Expected Output** Q Total Profit = 25 and Percentage of Profit = 125% Source Code Q #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 = %d₹ and Percentage of Loss = %d%%", loss, perLoss); } else{ profit = sellingPrice - costPrice; perProfit = profit * 100 / costPrice; printf("\nTotal Profit = %d₹ 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
                                                                                           ф
  #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.");
     return 0;
  }
10. WAP. to input age and marks. If age >= 18 and marks >= 80 then the
student is eligible for admission otherwise not.
  Test Data
                                                                                           Q
  Enter age and marks: 18 85
  Expected Output
                                                                                           Q
  You are eligible for Admission.
  Source Code
                                                                                           Q
  #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.");
     else
         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
                                                                                          Q
25 is a Perfect Square.
Source Code
                                                                                          Q
#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);
       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

Enter a number: 22

Expected Output

22 is not a 3 digit number

Source Code

#include <stdio.h>
```

```
int main(){
   int num;

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

if(num > 99 && num < 1000)
     printf("\n%d is a 3 digit number.", num);
else
     printf("\n%d is not a 3 digit number.", num);

return 0;
}</pre>
```

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

```
Test Data
                                                                                          Ċ
Enter 3 numbers: 15 20 25
Expected Output
                                                                                          Q
Greater number is 25
Source Code
                                                                                          Q
#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
                                                                                             0
  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("\nGrade is 'B'.");
     else if(marks >= 50)
         printf("\nGrade is 'C'.");
      else if(marks >= 35)
         printf("\nGrade is 'D'.");
          printf("\nGrade is 'F'.");
     return 0;
  }
```

15. WAP. to Calculate Telephone Bill:-

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

Test Data

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

Expected Output

```
Total Telephone Bill = 325
Source Code
                                                                                               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;
        totalBill = 1300 + (calls - 350) * 7;
    printf("\nTotal Telephone Bill = %d", totalBill);
   return 0;
}
```

16. WAP. to input 3 sides of a triangle and check whether it is possible or not. It possible then check whether the triangle is an equilateral, isosceles or scalene triangle.

Triangle

- *Equilateral Triangle*: A triangle is considered to be an equilateral triangle *when all three sides have the same length*.
- *Isosceles triangle:* When two sides of a triangle are equal or congruent, then it is called an isosceles triangle.
- Scalene triangle: When none of the sides of a triangle are equal, it is called a scalene triangle.

Test Data

```
Enter 3 sides of a triangle: 2 2 1

Expected Output

Isosceles Triangle.

Source Code

#include <stdio.h>

int main(){
   int s1, s2, s3;
```

```
printf("Enter 3 sides of a triangle:");
scanf("%d %d %d", &s1, &s2, &s3);

if(s1 + s2 > s3 || s1 + s3 > s2 || s2 + s3 > s1){
    if(s1 == s2 && s2 == s3)
        printf("\nEquilateral Triangle.");
    else if(s1 != s2 && s2 != s3)
        printf("\nScalene Triangle.");
    else
        printf("\nIsosceles Triangle.");
} else
    printf("\nNot a Valid Triangle.");
return 0;
}
```

17. WAP. to compute income tax paid by an employee:

Annual Salary	Rate of Income Tax
up to ₹100000	NO TAX
₹100001 to 150000	10% of amount exceeding ₹100000
RS.150001 to ₹250000	₹5000 + 20% of the amount exceeding ₹150000
Above ₹250000	₹25000 + 30% of the amount exceeding ₹250000

Test Data

```
Enter your salary: 275000
```

Expected Output

```
Total tax paid by him = 32500.000000
```

```
#include <stdio.h>

int main(){
    float salary, taxableAmount;

    printf("\nEnter your salary:");
    scanf("%f", &salary);

if(salary < 100000)
        taxableAmount = 0;
    else if(salary > 100000 && salary <= 150000)
        taxableAmount = (salary - 100000) * 10 / 100;
    else if(salary > 150000 && salary <= 250000)
        taxableAmount = 5000 + (salary - 150000) * 20 / 100;
    else
        taxableAmount = 25000 + (salary - 250000) * 30 / 100;

    printf("\nTotal Tax paid by him = %f", taxableAmount);</pre>
```

```
return 0;
}
```

18. WAP. to accept three numbers from user and print them in ascending and descending order in c.

Test Data

```
Enter 3 numbers: 3 4 1

Expected Output

Ascending order = 4 3 1
Descending order = 1 3 4
```

```
Q
#include <stdio.h>
int main(){
   int num1, num2, num3;
   printf("\nEnter 3 numbers: ");
   scanf("%d %d %d", &num1, &num2, &num3);
   if(num1 > num2 && num1 > num3){
       if(num2 > num3){
            printf("\nAscending order: %d %d %d",
            num1, num2, num3);
            printf("\nDescending order: %d %d %d",
            num3, num2, num1);
        } else{
            printf("\nAscending order: %d %d %d",
            num1, num3, num2);
            printf("\nDescending order: %d %d %d",
            num2, num3, num1);
   } else if(num2 > num1 && num2 > num3){
       if(num1 > num3){
            printf("\nAscending order = %d %d %d",
            num2, num1, num3);
            printf("\nDescending order = %d %d %d",
            num3, num1, num2);
        } else {
            printf("\nAscending order = %d %d %d",
            num2, num3, num1);
            printf("\nDescending order = %d %d %d",
            num1, num3, num2);
   } else{
        if(num1 > num2){
            printf("\nAscending order = %d %d %d",
            num3, num1, num2);
            printf("\nDescending order = %d %d %d",
            num2, num1, num3);
       } else{
```

```
printf("\nAscending order = %d %d %d",
            num3, num2, num1);
            printf("\nDescending order = %d %d %d",
            num1, num2, num3);
        }
   return 0;
}
```

19. WAP. to check the given date is correct or not.

Test Data

```
Q
Enter Date month and year e.g.(dd mm yyyy): 29 2 2023
Expected Output
                                                                                         Q
29-2-2023 is not a valid date.
Source Code
```

```
Q
#include <stdio.h>
int main(){
   int date, month, year, valid = 0;
   printf("\nEnter Date month and year (dd mm yyyy):");
   scanf("%d %d %d", &date, &month, &year);
   if(year % 4 == 0 && year % 100 != 0 || year % 400 == 0){
       if(month == 2 && (date <= 29 && date >= 1)){
            valid = 1;
       } else {
            valid = 0;
    } else {
       if(month == 2 && (date <= 28 && date >= 1)){
           valid = 1;
       } else {
            valid = 0;
       }
    }
   if(valid == 1 ||
    (((month == 1 || month == 3 || month == 5 || month == 7 || month == 8 ||
    month == 10 | month == 12) && (date <= 31 && date >= 1)) ||
    ((month == 4 || month == 6 || month == 9 || month == 11) &&
     (date <= 30 && date >= 1))))
       printf("\n%d-%d-%d is a Valid Date.",
        date, month, year);
    else
       printf("\n%d-%d-%d is not a Valid Date.",
     date, month, year);
```

```
return 0;
}
```

20. WAP. to input week number and print weekday.

Test Data Q Enter Week number: 4 **Expected Output** Q Thursday Source Code Q #include <stdio.h> int main(){ int weekNO; printf("\nEnter Week number:"); scanf("%d", &weekNO); if(weekNO == 1) printf("\nMonday"); else if(weekNO == 2) printf("\nTuesday"); else if(weekNO == 3) printf("\nWednesday"); else if(weekNO == 4) printf("\nThursday"); else if(weekNO == 5) printf("\nFriday"); else if(weekNO == 6) printf("\nSaturday"); else if(weekNO == 7) printf("\nSunday"); printf("\nEnter a valid week number."); return 0; }

21. WAP. to input month number and print number of days in that month.

Test Data

```
Enter month number: 4
```

Expected Output

30 Days

Source Code

```
Q
#include <stdio.h>
int main(){
    int monthNum, flag;
    printf("\nEnter month number:");
    scanf("%d", &monthNum);
    if(monthNum == 1 || monthNum == 3 || monthNum == 5 || monthNum == 7 ||
        monthNum == 8 || monthNum == 10 || monthNum == 12)
        flag = 1;
    else if (monthNum == 2)
       flag = 3;
    else if(monthNum == 4 || monthNum == 6
           || monthNum == 9 || monthNum == 11)
        flag = 2;
    else
       flag = 0;
    if(flag == 1)
        printf("\n31 Days");
    else if(flag == 2)
       printf("\n30 Days");
    else if(flag == 3)
        printf("\n28 or 29 Days");
    else
        printf("\nNot a Valid month.");
    return 0;
}
```

22. WAP. to check whether a triangle is valid or not, when the three angles of the triangle are entered through the keyboard.

Condition

A triangle is valid if the sum of all the three angles is equal to 180 degrees.

Test Data

```
Enter 3 angles of a triangle: 90 45 45

Expected Output
```

Valid Triangle

```
#include <stdio.h>

int main(){
    int a1, a2, a3;

    printf("\nEnter 3 angles of a triangle:");
    scanf("%d %d %d", &a1, &a2, &a3);

if(a1 + a2 + a3 == 180)
        printf("\nValid Triangle");
    else
        printf("\nnot a Valid Triangle");

    return 0;
}
```

23. WAP. to print the second largest out of three numbers.

```
Test Data
                                                                                             Q
Enter 3 numbers: 45 99 53
Expected Output
                                                                                             Q
Second largest number = 53
Source Code
                                                                                             Q
#include <stdio.h>
int main(){
   int num1, num2, num3, secLargest;
   printf("Enter 3 numbers:");
    scanf("%d %d %d", &num1, &num2, &num3);
   if((num1 < num3 || num1 < num2) &&</pre>
      (num1 > num2 | num1 > num3))
       secLargest = num1;
    else if((num2 < num3 || num2 < num1) &&</pre>
            (num2 > num1 | num2 > num3))
        secLargest = num2;
    else
        secLargest = num3;
    printf("\nSecond Largest number = %d", secLargest);
   return 0;
}
```

24. WAP. to compute the pension of an employee.

If the person is male.

Age	Pension
Age >= 90	pension is 4000
Age >= 60	pension is 6000
Age < 60	pension is 0

If the person is female.

Age	Pension
Age >= 90	pension is 3000
Age >= 60	pension is 5000
Age < 60	pension is 0

Test Data

```
Enter Your Age and Gender: 99 f
```

Expected Output

```
Pension = 3000
```

```
Q
#include <stdio.h>
int main(){
   int age, pension;
    char gender;
    printf("\nEnter Your Age and Gender: ");
    scanf("%d %c", &age, &gender);
    if(age >= 90){
        if(gender == 'm')
           pension = 4000;
        else if(gender == 'f')
           pension = 3000;
        else
            printf("\nEnter a Valid Gender.");
    } else if(age >= 60){
        if(gender == 'm')
           pension = 6000;
        else if(gender == 'f')
           pension = 5000;
        else
           printf("\nEnter a Valid Gender.");
    } else {
        pension = 0;
    }
    printf("\nPension = %d", pension);
```

```
return 0;
}
```

25. WAP. to check whether a 3 digit number is a magic number or not. (Palindrome) A number is a magic number if its reverse is same as the original number.

Test Data Q Enter number 121 **Expected Output** Q 121 is a magic number Source Code Q #include <stdio.h> int main(){ int num, rev, temp; printf("\nEnter a number:"); scanf("%d", &num); temp = num; rev = num % 10; temp = temp / 10; rev = (rev * 10) + temp % 10; rev = (rev * 10) + temp / 10;printf("%d %d", rev, num); if(rev == num) printf("\n%d is a magic number.", num); printf("\n%d is not a magic number.", num); return 0; }

26. WAP. to Find the absolute value of a number entered through the keyboard.

Test Data

```
Enter a number: 11
Enter a number: -23
```

Expected Output

```
Absolute number = 11
Absolute number = 23

Source Code

#include <stdio.h>

int main(){
    int num;

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

    if(num < 0)
        num = num * -1;

    printf("Absolute number = %d", num);
    return 0;
}
```

27. WAP. to to accept users marital status, gender and age to check if he/she is eligible for marriage or not.

```
Test Data

Enter MaritalStatus: m (married) / u (unmarried): u
Enter your gender: m (male) / f (female): m
Enter your age: 24

Expected Output

You can marry!

Source Code

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

```
#include <stdio.h>

int main(){

   int age;
   char maritalStatus, gender;

printf("\nEnter MaritalStatus: m (married) / u (unmarried): ");
   scanf(" %c", &maritalStatus);

printf("\nEnter your gender: m (male) / f (female): ");
   scanf(" %c", &gender);

printf("\nEnter your age: ");
   scanf(" %d", &age);

if(maritalStatus == 'm')
        printf("\nYou can not marry!");
   else if(maritalStatus == 'u'){
```

```
if(gender == 'm'){
    if(age >= 21)
        printf("\nYou can marry!");
    else
        printf("\nYou can not marry!");
} else if(gender == 'f'){
    if(age >= 18)
        printf("\nYou can marry!");
    else
        printf("\nYou can not marry!");
} else
    printf("\nEnter valid gender: ");
} else
    printf("\nEnter valid Marital Status: ");
return 0;
}
```

28. WAP. to Count the total numbers of notes in given amount.

Test Data

```
Enter the amount: 375
```

Expected Output

```
2000 = 0

500 = 2

200 = 1

100 = 0

50 = 0

20 = 1

10 = 0

5 = 0

2 = 0

1 = 1
```

```
#include <stdio.h>

int main(){
    int amount, twoThousand = 0, fiveHundred = 0, twoHundred = 0,
    oneHundred = 0, fifty = 0, twenty = 0, ten = 0,
    five = 0, two = 0, one = 0;

printf("\nEnter amount:");
    scanf("%d", &amount);

if(amount > 2000){
        twoThousand = amount / 2000;
        amount = amount % 2000;
}

if(amount > 500){
    fiveHundred = amount / 500;
    amount = amount % 500;
```

```
if(amount > 200){
        twoHundred = amount / 200;
        amount = amount % 200;
    if(amount > 100){
        oneHundred = amount / 100;
        amount = amount % 100;
    if(amount > 50){
       fifty = amount / 50;
        amount = amount % 50;
    }
    if(amount > 20){
       twenty = amount / 20;
        amount = amount % 20;
    if(amount > 10){
       ten = amount / 10;
        amount = amount % 10;
    }
    if(amount > 5){
       five = amount / 5;
        amount = amount % 5;
    if(amount > 2){
       two = amount / 2;
        amount = amount % 2;
    }
    if(amount >= 1){
       one = amount;
    printf("\n2000 = %d", twoThousand);
    printf("\n500 = %d", fiveHundred);
    printf("\n200 = %d", twoHundred);
    printf("\n100 = %d", oneHundred);
    printf("\n50 = %d", fifty);
    printf("\n20 = %d", twenty);
    printf("\n10 = %d", ten);
    printf("\n5 = %d", five);
    printf("\n2 = %d", two);
    printf("\n1 = %d", one);
   return 0;
}
```

29. WAP. to determine whether the given character is a capital letter, a small case letter, a digit or a special symbol.

<u>ASCII</u> value of the digit is between 48 to 58 and lowercase characters in the range of 97 to 122, and uppercase is between 65 and 90, and special symbol is between (32 to 47, 58 to 64, 91 to 96, 123 to 127).

Test Data

```
Q
Enter Any Character: c
Expected Output
                                                                                              Q
Character is 'Lowercase'.
Source Code
                                                                                              Q
#include <stdio.h>
int main(){
    char ch;
    printf("Enter Any Character: ");
    scanf("%c", &ch);
    if(ch >= 48 \&\& ch < 58){
        printf("Character is 'Digit'.");
    } else if(ch >= 32 && ch <= 47 || ch >= 58 && ch <= 64
    ||ch>= 91 \&\& ch <= 96 ||ch>= 123 \&\& ch <= 127){
        printf("Character is 'Special Character'.");
    } else if(ch >= 65 && ch <= 90){</pre>
        printf("Character is 'UpperCase'.");
    } else if(ch >= 97 && ch <= 121){</pre>
        printf("Character is 'Lowercase'.");
   return 0;
}
```

30. WAP. to input the length and breadth of a rectangle, find whether the area of the rectangle is greater than its perimeter.

Test Data

Enter the length and breadth of a rectangle: 5 4

Expected Output

Area of rectangle is greater than its perimeter.

Source Code

#include <stdio.h>

31. WAP. to input three points (x1, y1), (x2, y2) and (x3, y3), check if all the three points fall on one straight line.

Test Data

```
Enter points (x1, y1):1 2
Enter points (x2, y2):3 4
Enter points (x3, y3):5 6
```

Expected Output

```
All the three points fall on the straight line:
```

```
#include <stdio.h>

int main(){
    int x1, y1, x2, y2, x3, y3, m, n;

    printf("Enter points (x1, y1):");
    scanf("%d %d", &x1, &y1);

    printf("Enter points (x2, y2):");
    scanf("%d %d", &x2, &y2);

    printf("Enter points (x3, y3):");
    scanf("%d %d", &x3, &y3);

    m = (y2 - y1) / (x2 - x1);
    n = (y3 - y2) / (x3 - x2);

    if(m == n)
        printf("All the three points fall on the straight line:");
    else
        printf("All 3 points do not lie on the same line\n");
```

```
return 0;
}
```

32. WAP. to input a point (x, y), find out if it lies on the x-axis, y-axis or at the origin, viz. (0, 0).

Condition

In point (x, y), if x = 0 and y = 0, then the point lies on the origin. If value of x is zero and y is greater than zero, then the point lies on y-axis. If y is zero and x is greater than zero, then the point lies on x-axis.

```
Test Data

Enter point (x, y): 35 20

Expected Output

Point (35, 20) neither lie on x-axis nor on y-axis

Source Code

#include <stdio.h>

int main(){
```

```
#include <stdio.h>

int main(){
    int x1, y1;

    printf("Enter (x, y): ");
    scanf("%d %d", &x1, &y1);

if(x1 == 0 && y1 == 0)
        printf("\nThe point (%d, %d) lies on the origin.", x1, y1);
    else if(x1 == 0 && y1 > 0)
        printf("\nThe point (%d, %d) lies on the y-axis.", x1, y1);
    else if(x1 > 0 && y1 == 0)
        printf("\nThe point (%d, %d) lies on the x-axis.", x1, y1);
    else
        printf("\nThe point (%d, %d) lies on the x-axis.", x1, y1);
    else
        printf("Point (%d, %d) neither lie on x-axis nor on y-axis", x1, y1);
}
```

33. WAP. to check whether a given number is even or odd without using modulo (%) operator

Test Data:

```
Enter a number: 12
```

Expected Output:

```
Even number
Source Code
                                                                                           Q
#include <stdio.h>
int main(){
   int num, rem;
   printf("Enter a number: ");
    scanf("%d", &num);
   rem = num - num / 2 * 2;
    if(rem == 0)
       printf("\nEven number");
       printf("\nOdd number");
   return 0;
}
```

34. WAP. An electricity board charges the following rates for the use of electricity:

Unit	Price
first 200 units	Rs. 0.80 per unit
next 100 units	Rs. 0.90 per unit
Beyond 300 units	Rs. 1 per unit

All users are charged a minimum of Rs. 100 as meter charge.

If the total amount is more than Rs. 400, then an additional surcharge of 15% of total amount is charged.

Test Data

int main(){

float units, price;

```
Q
Enter number of units: 417
Expected Output
                                                                                        Q
Total Charges = 437.05
Source Code
                                                                                        Q
#include <stdio.h>
```

```
printf("\nEnter number of units: ");
scanf("%f", &units);

if(units <= 200 && units > 0)
    price = units * 0.80;
else if(units <= 300 && units > 200)
    price = 160 + (units - 200) * 0.90;
else if(units > 300)
    price = 250 + (units - 300) * 1;
else
    price = 0;

price = price + 100;

if(price > 400)
    price = price + (price * 15 / 100);

printf("\nTotal Charges = %.2f", price);

return 0;
}
```

Hi 🤏, I'm Rajiv Kumar

A passionate frontend developer from India

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