**Basic expression programs:**

1. Write a program to print “HELLO WORLD”

Hint print(“…

1. Write a program to print “Name and Address”

Hint print(“…

1. Write a program to print no and its square.

Hint a=5

print(“

1. Write a program to take two numbers and print Addition, Multiplication, Subtraction, Division.

Hint a=20 , b=2

print

print

print

print

1. Write a program to find the area of a circle (3.14\*r\*r)

Hint r=10

print(

1. Write a program to calculate simple interest using I = PRN/100 (P= Principle amount, R = Rate of Interest, N = Number of Years)

Hint p=10000,r=2,n=2

print(

1. Write a program to find the area of a Triangle (0.5\*H\*B)

Hint H=100,B=200

print(

**Input/Output programs:**

1. Write a program to print no and its square.

Hint a=int(input(…..

print(…

1. Write a program to take two numbers and print Addition, Multiplication, Subtraction, Division.

Hint a=int(input(…. , b=int(input(….

print(

1. Write a program to find the average temperature of five sunny days.

Hint day1=int(input(… , day2,day3,day4,day5

print

1. Write a program to find the area of a circle (3.14\*r\*r)

Hint r=float(input(…

1. Write a program to calculate simple interest using I = PRN/100 (P= Principle amount, R = Rate of Interest, N = Number of Years)
2. Write a program to find the area of a Triangle (0.5\*H\*W)
3. Convert meter to centimetre
4. Write a program to calculate simple interest using I = PRN/100 (P= Principle amount, R = Rate of Interest, N = Number of Years)
5. Write a program to enter the temperature in feranhit and convert it to Celsius.[C=(f-32)\*5/9]
6. Write a program to calculate Gross Salary and Net Salary print Grade of employee

|  |  |
| --- | --- |
| BASIC = 8000 | ma= 10% of basic |
| da = 52% of basic | ltc= 5% of basic |
| hra= 10% of basic | va= 10% of basic |

Gross Salary = basic + da + hra + ma + Itc + va

Net Salary = Gross Saiary - PF

1. Write a program to swap contents of the two variables
2. Write a program to swap contents of the two variables without use of third variable
3. Write a program to convert centimeter to meter.
4. Write a program to convert Celsius to Fahrenheit.

Arithmetic Operator

|  |  |  |
| --- | --- | --- |
| **Operator** | **Name** | **Example** |
| + | Addition | x + y |
| - | Subtraction | x - y |
| \* | Multiplication | x \* y |
| / | Division | x / y |
| % | Modulus | x % y |
| \*\* | Exponentiation | x \*\* y |
| // | Floor division | x // y |

Logical Operator

|  |  |  |
| --- | --- | --- |
| **Operator** | **Description** | **Example** |
| and | Returns True if both statements are true | x < 5 and  x < 10 |
| Or | Returns True if one of the statements is true | x < 5 or x < 4 |
| Not | Reverse the result, returns False if the result is true | not(x < 5 and x < 10) |

Comparison Operator

|  |  |  |
| --- | --- | --- |
| **Operator** | **Name** | **Example** |
| == | Equal | x == y |
| != | Not equal | x != y |
| > | Greater than | x > y |
| < | Less than | x < y |
| >= | Greater than or equal to | x >= y |
| <= | Less than or equal to | x <= y |
|  |  |  |

If else

* Equals: a == b
* Not Equals: a != b
* Less than: a < b
* Less than or equal to: a <= b
* Greater than: a > b
* Greater than or equal to: a >= b
* Divisible by: a%7==0

If else programs

1. Find out Maximum between 2 values

(Example : Enter no1 => 22 , Enter no2 =>33 then output will be 33 is max)

1. Enter one value and check whether that no is 5 or not?

(Example : Enter no => 5, Yes no is 5 , if 6 then Sorry no is not 5)

1. Enter one value and check whether that no is greater than 5 or not?

(Example : Enter no => 57, Yes no is > 5 , if 3 then Sorry no is <5)

1. Write a C program to accept two integers and check whether they are equal or not.

(Example : Enter no1 => 57, Enter no2 => 57

Yes both are equal)

1. Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote.

(Example : Enter your age => 16

Sorry you are not eligible for vote)

1. Find out whether the given no is positive or negative

(Example : Enter no => 22 then output will be 22 is positive , -3 is negative , no is 0)

1. Find out whether the give no is odd or even or 0.

(Example : Enter no => 22 then output will be 22 is even , 23 is odd , no is 0)

1. Enter 3 subjects marks , print total , and if total>50 then display Pass else display Fail

(Example : Enter marks of Hindi => 22 Enter marks of English =>30 Enter marks of SS => 35 then output will be Your total 117 , you are pass)

1. Enter 3 subjects marks , print total , and if total is between 0-50 then display C grade , 50-100 B grade and > 100 then A grade

(Example : Enter marks of Hindi => 22 Enter marks of English =>30 Enter marks of SS => 35 then output will be Your total 117 ,you got A grade)

1. Write a C program to find the largest of three numbers.

(Example: Enter no1 => 12 Enter no2 =>25 Enter no3 => 52  
Output will be

The 3rd Number is the greatest among three

1. Write a C program to find whether a given year is a leap year or not.

(Example: Enter year => 2020 , Output will be Year is leap year)

1. Enter