

Conditional Statements:

- 1) Program to accept the age of a person and check he/she is eligible to vote

Start of the program

Input: Enter the age of the person in integer

Processing: If($\text{age} \geq 18$)

 Print (Eligible to vote)

 else Print (Not Eligible to vote)

End of the program

- 2) A Program to accept the PCM marks and to display total marks and percentage with grades obtained

Start of the program

Input: Enter the marks obtained in Physics out of 100; Phy

 Enter the marks obtained in Chemistry out of 100; Che

 Enter the marks obtained in Maths out of 100; Mat

Processing: Calculating the total marks obtained

 Total = Phy + Che + Mat;

 Percentage obtained = Total / 300;

 Grade calculation: If (percentage $\geq 60 \ \&\& \leq 79$): Average

 If (percentage $\geq 80 \ \&\& \leq 89$): Good

 If (percentage $\geq 90 \ \&\& \leq 100$): Outstanding

Output: Display the Total, Percentage and Grade

End of the program

- 3) Accept the color code and display the color selected

Start of the program

Input: Enter the color code

Processing: IF (color code is a valid HEX color)

 Color = hex(code)

 Else (Invalid color code)

Output: Display the color

End of the program

- 4) Program to check the integers are equal

Start of the program

Input: Enter the value of a:

 Enter the value of b:

Processing: IF ($a == b$) Print(a and b are equal)

Else Print (a and b are not equal)
End of the program

- 5) Check whether the number is even or odd

Start of the program
Input: Enter the value of num
Processing: IF (num%2==0) Print(num is even)
 Else Print (num is odd)
End of the program

- 6) Check whether the number is positive or negative

Start of the program
Input: Enter the value of num
Processing: IF (num>=0) Print(num is Positive)
 Else Print (num is Negative)
End of the program

- 7) Check whether the year is leap year or not

Start of the program
Input: Enter the year
Processing: IF (year%4 == 0 && year%100 == 0 && year%400 == 0)
 Print(Its a leap year)
 Else (year%4==0 && !year%100 == 0)
 Print(Its a leap year)
 Else Print (Not a leap year)
End of the program