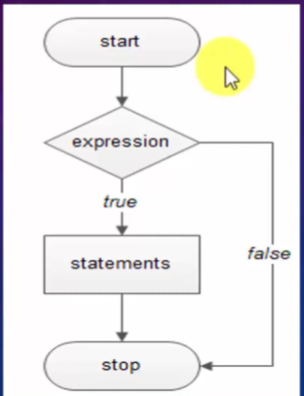
**Session5: Statement & Expression**

**Expression :-** its combination of opearands (variable, literals, method). Expression have atleast one value. Ends with semicolon.

Eg:- int a =20; OR sum = a+b+c;

**Statement :-** statement means more than one sentence or code. Its called as block or scope. Ends with semicolon. Statement is also provide decision making and looping structure.

* **Types of Statement: - Selection Statement OR Conditional Statement OR Decision Making: --** (if, else, nested if, nested else, swtich):- this is used to make decision. It vary on the Boolean value. If..if..if : checked all condition. And all the condition goes in sequence.
* **Nested If :** if within if. It consist multiple if statement. Outer if is indicate main if.



* **Switch Case:** its used against if condition. Treated as if condition. In switch we need to pass argument. Switch(argument). It contain case and break; when condition falls default it will return.
* **Nested Swtich:** switch within switch. Outer and inner switch.

**S5\_StatmntAndSelectionStmntProgram**

using System;

using System.Collections.Generic;

using System.Text;

namespace AllSession

{

class S5\_StatmntAndSelectionStmntProgram

{

public void MarkChecker()

{

//IF...IF Then IF...else if

Console.Write("Enter Percentage value \t");

int percentage = int.Parse(Console.ReadLine());

if (percentage >= 80)

Console.WriteLine("Congrats! You Pass the Exam");

// Console.WriteLine("Wish You best Luck"); // Error

else if (percentage >= 60)

Console.WriteLine("Good! You Are Eligible For Commerce");

else if (percentage >= 50)

Console.WriteLine("All The Best");

else if (percentage < 35)

Console.WriteLine("Failed");

else

Console.WriteLine("Sorry! \tTry Next Time");

}

//Nested If OR If...If OR else...IF

public void NestedIf()

{

int no1 = 52;

if (no1 > 50)

{

if (no1 < 40)

Console.Write("Less");

else

Console.Write("Big");

}

else

{

if (no1 == 52)

Console.WriteLine("Value is Eqaul");

else

Console.WriteLine("Value is NotEqual");

}

}

//switchCase

public void SwitchCase()

{

Console.WriteLine("Enter Week Number \t");

int weekNo = int.Parse(Console.ReadLine());

switch (weekNo)

{

case 1:

Console.WriteLine("Monday");

break;

case 2:

Console.WriteLine("Tuesday");

break;

case 3:

Console.WriteLine("Wednsday");

break;

case 4:

Console.WriteLine("Thursday");

break;

case 5:

Console.WriteLine("Friday");

break;

case 6:

Console.WriteLine("Saturday");

break;

case 7:

Console.WriteLine("Sunday");

break;

default:

Console.WriteLine("Enter Valid Number");

break;

}

}

public void SwitchGroup()

{

Console.Write("Enter Character\t ");

char alpha = Convert.ToChar(Console.ReadLine());

switch (alpha)

{

case 'a':

case 'e':

case 'o':

case 'u':

case 'i':

Console.WriteLine("Vowel");

break;

case 'A':

Console.Write("\*\*\*\*\*\*\*\*\*\*You Are in Capital Alphabate :-- \n Enter Capital Character: \*\*\*\*\*\*\* \t");

char cap = Convert.ToChar(Console.ReadLine());

switch (cap) //Nested Case

{

case 'A':

case 'E':

case 'O':

case 'U':

case 'I':

Console.Write($"{cap} is Vowel");

break;

default:

Console.WriteLine($"{cap} Not Vowel");

break;

}

break;

default:

Console.WriteLine("Not Vowel");

break;

}

}

}

}

**Program.Cs**

using AllSession;

using Session1.nestedNamespace; // Assembly Refrence OR Namespace OR PAckage

using System;

namespace Session1

{

class Program : S4\_AccessModifiereAndKeyword

{

static void Main(string[] args)

{

S5\_StatmntAndSelectionStmntProgram stmnt = new S5\_StatmntAndSelectionStmntProgram();

stmnt.MarkChecker();

stmnt.NestedIf();

stmnt.SwitchCase();

stmnt.SwitchGroup();

}

}

}

**\*\*\*\*\*\*\*\*\*\*\*\*TASK\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Q) Write Program to check number is prime Armstrong or even odd using Switch Case.

Q) Write a program to check number is palindrome and Fibonacci series of the given number using **(IF nested if and Switch)**