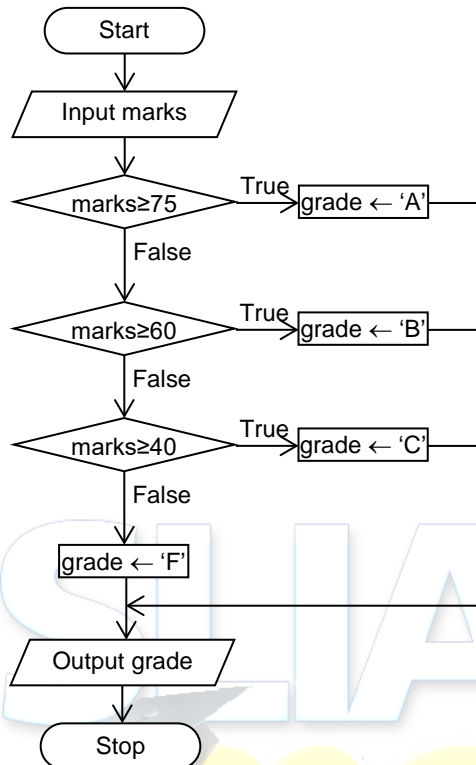




Week 07

4. Multi-Way Selection (If Then ElseIf ElseIf Else): Output the grade for a given marks

Flow Chart:



Pseudo Code:

```

start
input marks
if marks ≥ 75 then grade ← 'A'
else if marks ≥ 60 then grade ← 'B'
else if marks ≥ 40 then grade ← 'C'
else grade ← 'F'
output grade
stop
  
```

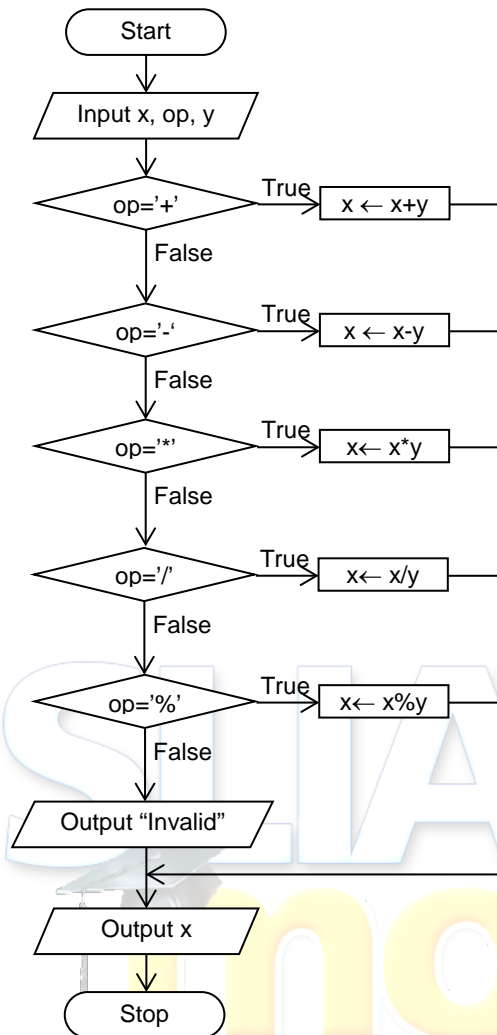
C++ Code:

```

#include <iostream.h>
void main()
{
    int marks;
    char grade;
    cout<<"Enter the marks: ";
    cin>>marks;
    if (marks>=75)
        grade='A';
    else if (marks>=60)
        grade='B';
    else if (marks>=40)
        grade='C';
    else
        grade='F';
    cout<<"The grade is"<<grade<<endl;
}
  
```

Multi-Way Selection (Case): Output the answer of a given simple expression like '5 + 9'

Flow Chart:



Pseudo Code:

```

start
input x, op, y
case op of
  '+': x = x+y
  '-': x = x-y
  '*': x = x*y
  '/': x = x/y
  '%': x = x%y
else : output "Invalid"
output x
stop
  
```

C++ Code:

```

#include <iostream.h>
void main()
{
  int x,y;
  char op;
  cout<<"Enter an expression like '5 + 9' : ";
  cin>>x>>op>>y;
  switch (op)
  {
    case '*': x *= y; break;
    case '/': x /= y; break;
    case '+': x += y; break;
    case '-': x -= y; break;
    case '%': x %= y; break;
    default : cout<<"Invalid ";
  }
  cout<<"Answer: "<<x;
}
  
```