

ADA – Control Structure Example (Calculator Program)

```
with Text_IO;
with Gnat.IO;
use Gnat.IO;
procedure Calculator is
  Operand: Character;
  Val: Integer := 0;
  InputVal: Integer;
begin
  loop
    Put(Val);
    New_Line;
    Put("Enter Operation(e for exit) ");
    loop
      Get(Operand);
      exit when Operand /= ' ';
    end loop;
    exit when Operand = 'e' or Operand = 'E';
    Get(InputVal);
    Text_IO.Skip_Line;
    case Operand is
      when '=' => Val:=InputVal;
      when '+' => Val:=Val + InputVal;
      when '-' => Val:=Val - InputVal;
      when '*' => Val:=Val * InputVal;
      when '/' => Val:=Val / InputVal;
      when '0'..'9' => Put_Line("What operation do you wanna perform ?");
      when others => Put_Line("Invalid Operand: " & Operand & " ");
    end case;
  end loop;
end Calculator;
```

SAMPLE OUTPUT:

0

Enter Operation(e for exit) +

5

5

Enter Operation(e for exit) -

2

3

Enter Operation(e for exit) *

10

30

Enter Operation(e for exit) /

6

5

Enter Operation(e for exit) e