

Lab 7 โจทย์ข้อ 2

```
program quadrant;
uses WinCrt;
var x,y:real;      {for storing the coordinate}
var t:integer;     {for storing case}

begin
  write('Please input x:'); readln(x);
  write('Please input y:'); readln(y);

  {testing (x,y)}
  if (x = 0) and (y = 0) then
    t := 1
  else if (x = 0) and (y < 0) then
    t := 2
  else if (x = 0) and (y > 0) then
    t := 3
  else if (x < 0) and (y = 0) then
    t := 4
  else if (x < 0) and (y < 0) then
    t := 5
  else if (x < 0) and (y > 0) then
    t := 6
  else if (x > 0) and (y = 0) then
    t := 7
  else if (x > 0) and (y < 0) then
    t := 8
  else
    t := 9;

  case t of
    1: writeln('Point (',x:1:2,',',y:1:2,') is at the origin');
    2: writeln('Point (',x:1:2,',',y:1:2,') is on the x-axis');
    3: writeln('Point (',x:1:2,',',y:1:2,') is on the x-axis');
    4: writeln('Point (',x:1:2,',',y:1:2,') is on the y-axis');
    5: writeln('Point (',x:1:2,',',y:1:2,') is in Quadrant 3');
    6: writeln('Point (',x:1:2,',',y:1:2,') is in Quadrant 2');
    7: writeln('Point (',x:1:2,',',y:1:2,') is on the y-axis');
    8: writeln('Point (',x:1:2,',',y:1:2,') is in Quadrant 4');
    9: writeln('Point (',x:1:2,',',y:1:2,') is in Quadrant 1');
  end;
end.
```