

```

1  (* Start of Part D Doc *)
2
3  (* By extending W *)
4
5  Letex:
6
7  Type Rule:
8
9      <x, TExc>+A |- e:t
10     -----[Letex]
11     A |- Letex(x, e) : t
12
13 Pseudocode:
14
15     W (A, Letex (x, e)) =
16         let
17             <s, t> = W ((x, TExc)+A, e)
18         in
19             <s, t>
20
21
22 Handle:
23
24 Type Rule:
25
26     A |- e1:bool      A |- e2:t      A |- e3:t
27     -----[Handle]
28     A |- Handle(e1, e2, e3) : t
29
30 Pseudocode:
31
32     W (A, Handle (e1, e2, e3)) =
33         let
34             <s1, t1> = W (A, e1)
35             s2 = unify (TExc, t1)
36             <s3, t3> = W (s2 o s1 o A, e2)
37             <s4, t4> = W (s3 o s2 o s1 o A, e3)
38             s5 = unify (t3 s4, t4)
39         in
40             <s5 o s4 o s3 o s2 o s1, t4 s5>
41
42 *Note: TExc is the type of exception.
43
44
45 (* By placing in type environment *)
46
47 Raise:
48
49     ForAll a, a
50
51 (* End of Part D Doc *)
52

```