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Review DAP

1. Answer:

```
Program read-number-five

    Dictionary

        i: integer

    Algorithm

        input i

        if i == 5 then
            display “Ini adalah angka 5”
        else
            display “Ini bukan angka 5”

End Program
```

2. Answer:

```
Program read-three-multiplier

    Dictionary

        x: integer

    Algorithm

        input x

        if x / 3 == 0 then
            display “X adalah bilangan kelipatan tiga”
        else
            display “X bukan bilangan kelipatan tiga”

End Program
```

3. Answer:

```
Program loop-user-input

    Dictionary

        i, r, x, hasil, stop: integer
```

```
    Algorithm

        stop: -999
        i, r ← 0
        input x

        while x != stop do
            r ← r + x
            i ← i + 1
            input x
        end while

        hasil = r/i
        display hasil

End Program
```

4. Answer:

Initial value for variable a is 10 and also initial value for b is 5, and then both of them enter procedure Tukar1 with a(10) is on b input and b(5) is on a input. I will re-write the procedure after getting input in down below

procedure Tukar1 called after getting input:

```
Procedure Tukar1 (a = 5,  b = 10)

    Local Dictionary

        tempt: integer

    Algorithm

        tempt ← 5
        a ← 10
        b ← 5

End Procedure
```

So the output is a = 10 because the output on a

and then go to the next procedure that getting call is Tukar2:

```
Procedure Tukar2 (a = 10, b = 5)

    Local Dictionary

        tempt: integer

    Algorithm
```

```
        tempt ← 10
        a ← 5
        b ← 10

End Procedure
```

So the output is b = 10 because the output is on b

and the last procedure that getting called is Tukar1 again:

```
Procedure Tukar1 (a = 10, b = 10)

    Local Dictionary

        tempt: integer

    Algorithm

        tempt ← 10
        a ← 10
        b ← 10

End Procedure
```

So the output is a = 10, and so we get our final result

```
a = 10
b = 10
```

5. Answer:

```
Function nilaiPertama (T: arrayMahasiswa, N: integer, NIM: string)

    Local Dictionary

        i: integer

    Algorithm

        i ← 0

        while i < N do

            if NIM == T.NIM[i] then
                return T.Nilai

        i++
        end while
```

```
                return -1

end Function
```