

PSEUDOCODE – Task 1

```
DECLARE optionsDesc : ARRAY[1:5] OF STRING
DECLARE studentIDs: ARRAY[1:120] OF STRING
DECLARE studentPref: ARRAY[1:5] OF STRING
DECLARE studentPrefOne: ARRAY[1:5] OF STRING
DECLCARE staffIDs : ARRAY[1:20] OF STRING
DECLARE staffPref : ARRAY[1:5] OF STRING
DECLARE staffPrefOne : ARRAY[1:5] OF STRING
```

```
DECLARE continueFlag : BOOLEAN
DECLARE switchFlag : BOOLEAN
DECLARE enterFlag : BOOLEAN
```

```
DECLARE switch : STRING
DECLARE preference : STRING
DECLARE studentIDStr : STRING
DECLARE staffIDStr : STRING
DECLARE continueFlagStr : STRING
```

```
DECLARE e : INTEGER
```

```
OUTPUT "Enter the description of Option A: "
INPUT optionsDesc[1]
```

```
OUTPUT "Enter the description of Option B: "
INPUT optionsDesc[2]
```

```
OUTPUT "Enter the description of Option C: "
INPUT optionsDesc[3]
```

```
OUTPUT "Enter the description of Option D: "
INPUT optionsDesc[4]
```

```
OUTPUT "Enter the description of Option E: "
INPUT optionsDesc[5]
```

```
continueFlag = TRUE
```

```
WHILE continueFlag = TRUE
```

```
DO
```

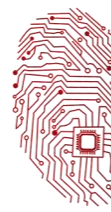
```
    switchFlag = TRUE
```

```
    WHILE switchFlag = TRUE
```

```
        DO
```

```
            OUTPUT "Are you a student or a staff? (Student/Staff): "
            INPUT switch
```





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```
IF UPPER(switch) = "STUDENT" THEN

    switchFlag = FALSE

    OUTPUT "Enter your student ID: "
    INPUT studentIDStr

    enterFlag = TRUE

    FOR e = 1 TO 150

        IF studentIDs[e] = studentIDStr THEN

            OUTPUT "You have already entered your preference!"
            enterFlag = FALSE

        ENDIF

    NEXT

    IF enterFlag = TRUE THEN

        OUTPUT "Option A: " & optionDesc[1]
        OUTPUT "Option B: " & optionDesc[2]
        OUTPUT "Option C: " & optionDesc[3]
        OUTPUT "Option D: " & optionDesc[4]
        OUTPUT "Option E: " & optionDesc[5]

        OUTPUT "Enter your preferences ('1': 'Strongly Agree', '5':
        'Strong Disagree') "

        OUTPUT "Preference for Option A: "
        INPUT preference

        preference = INT(preference)

        WHILE preference < 1 OR preference > 5
            DO
                OUTPUT "Enter a correct value (1-5)!"
                INPUT preference
            ENDWHILE

        studentPref[1] = studentPref[1] + preference

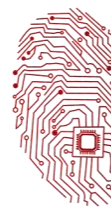
        IF preference = 1 THEN

            studentPrefOne[1] = studentPrefOne[1] + 1

        ENDIF

    ENDIF
```

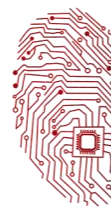




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```
OUTPUT "Preference for Option B: "  
INPUT preference  
  
preference = INT(preference)  
  
WHILE preference < 1 OR preference > 5  
    DO  
        OUTPUT "Enter a correct value (1-5)!"  
        INPUT preference  
  
    ENDWHILE  
  
studentPref[2] = studentPref[2] + preference  
  
IF preference = 1 THEN  
    studentPrefOne[2] = studentPrefOne[2] + 1  
  
ENDIF  
  
OUTPUT "Preference for Option C: "  
INPUT preference  
  
preference = INT(preference)  
  
WHILE preference < 1 OR preference > 5  
    DO  
        OUTPUT "Enter a correct value (1-5)!"  
        INPUT preference  
  
    ENDWHILE  
  
studentPref[3] = studentPref[3] + preference  
  
IF preference = 1 THEN  
    studentPrefOne[3] = studentPrefOne[3] + 1  
  
ENDIF  
  
  
OUTPUT "Preference for Option D: "  
INPUT preference  
  
preference = INT(preference)  
  
WHILE preference < 1 OR preference > 5  
    DO
```





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```
        OUTPUT "Enter a correct value (1-5)!"
        INPUT preference

    ENDWHILE

    studentPref[4] = studentPref[4] + preference

    IF preference = 1 THEN

        studentPrefOne[4] = studentPrefOne[4] + 1

    ENDIF

    OUTPUT "Preference for Option E: "
    INPUT preference

    preference = INT(preference)

    WHILE preference < 1 OR preference > 5
        DO
            OUTPUT "Enter a correct value (1-5)!"
            INPUT preference
        ENDWHILE

        studentPref[5] = studentPref[5] + preference

        IF preference = 1 THEN

            studentPrefOne[5] = studentPrefOne[5] + 1

        ENDIF

    ELSEIF UPPER(switch) = "STAFF" THEN

        switchFlag = FALSE

        OUTPUT "Enter your staff ID: "
        INPUT staffIDStr

        enterFlag = TRUE

        FOR e = 1 TO 20

            IF staffIDs[e] = staffIDStr THEN

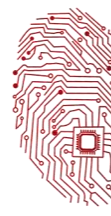
                OUTPUT "You have already entered your preference!"
                enterFlag = FALSE

            ENDIF

        ENDIF

    ENDIF
```





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NEXT

IF enterFlag = TRUE THEN

```
OUTPUT "Option A: " & optionsDesc[1]
OUTPUT "Option B: " & optionsDesc[2]
OUTPUT "Option C: " & optionsDesc[3]
OUTPUT "Option D: " & optionsDesc[4]
OUTPUT "Option E: " & optionsDesc[5]
```

```
OUTPUT "Enter your preferences ('1': 'Strongly Agree', '5':
'Strong Disagree')"
```

```
OUTPUT "Preference for Option A: "
INPUT preference
```

```
preference = INT(preference)
```

```
WHILE preference < 1 OR preference > 5
DO
    OUTPUT "Enter a correct value (1-5)!"
    INPUT preference
```

```
ENDWHILE
```

```
staffPref[1] = staffPref[1] + preference
```

```
IF preference = 1 THEN
```

```
    staffPrefOne[1] = staffPrefOne[1] + 1
```

```
ENDIF
```

```
OUTPUT "Preference for Option B: "
INPUT preference
```

```
preference = INT(preference)
```

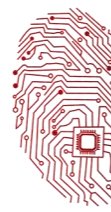
```
WHILE preference < 1 OR preference > 5
DO
    OUTPUT "Enter a correct value (1-5)!"
    INPUT preference
```

```
ENDWHILE
```

```
staffPref[2] = staffPref[2] + preference
```

```
IF preference = 1 THEN
```





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```
        staffPrefOne[2] = staffPrefOne[2] + 1

ENDIF

OUTPUT "Preference for Option C: "
INPUT preference

preference = INT(preference)

WHILE preference < 1 OR preference > 5
    DO
        OUTPUT "Enter a correct value (1-5)!"
        INPUT preference
    ENDWHILE

    staffPref[3] = staffPref[3] + preference

    IF preference = 1 THEN
        staffPrefOne[3] = staffPrefOne[3] + 1
    ENDIF

    OUTPUT "Preference for Option D: "
    INPUT preference

    preference = INT(preference)

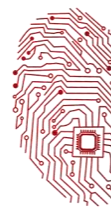
    WHILE preference < 1 OR preference > 5
        DO
            OUTPUT "Enter a correct value (1-5)!"
            INPUT preference
        ENDWHILE

        staffPref[4] = staffPref[4] + preference

        IF preference = 1 THEN
            staffPrefOne[4] = staffPrefOne[4] + 1
        ENDIF

        OUTPUT "Preference for Option E: "
        INPUT preference
```





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```
preference = INT(preference)

WHILE preference < 1 OR preference > 5
    DO
        OUTPUT "Enter a correct value (1-5)!"
        INPUT preference

    ENDWHILE

staffPref[5] = staffPref[5] + preference

IF preference = 1 THEN

    staffPrefOne[5] = staffPrefOne[5] + 1

ENDIF

ELSE

    OUTPUT "Error: Enter a valid response (Student/Staff)"

ENDIF

ENDWHILE

OUTPUT "Would you like to add another preference? (Y/N): "
INPUT continueFlagStr

IF continueFlagStr = "Y" THEN

    continueFlag = TRUE

ELSEIF continueFlagStr = "N" THEN

    continueFlag = FALSE

ELSE

    OUTPUT "Enter a correct value (Y/N)"

ENDIF

ENDWHILE
```

