Technological University of the Philippines

Ayala Blvd, Ermita, Manila, 1000 Metro Manila

PROGRAMMING LANGUANGE

Salanatin, Nathaly Pearl F.   Professor Ariel Tomagan

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ACTIVITY 1: FILE HANDLING

Source Code:

```c
1   // SALANATIN, NATHALY PEARL | ACTIVITY 1 | PROGRAMMING LANGUANGE
2
3   #include <stdio.h>
4   #include <stdlib.h>
5
6   // Function to write data to a text file
7   void write_file() {
8       char data[100];
9       printf("Enter data to write to the text file: ");
10      fflush(stdin);
11      gets(data);
12
13      // Open file
14      FILE *file = fopen("example.txt", "w");
15      if (file == NULL) {
16          printf("Failed to open file.\n");
17          exit(1);
18      }
19
20      // Write data to the text file
21      fprintf(file, "%s", data);
22      fclose(file);
23      printf("Data written successfully!\n");
24  }
25
26  // Function to read data from a text file
27  void read_file() {
28      char data[100];
29
30      // Open file in read mode
31      FILE *file = fopen("example.txt", "r");
32      if (file == NULL) {
33          printf("Failed to open.\n");
34          exit(1);
35      }
36
37      // Read data from the text file
38      printf("Data read from file:\n");
39      while (fgets(data, sizeof(data), file) != NULL) {
40          printf("%s", data);
41      }
42      fclose(file);
```

```c
30          // Open file in read mode
31          FILE *file = fopen("example.txt", "r");
32          if (file == NULL) {
33              printf("Failed to open.\n");
34              exit(1);
35          }
36
37          // Read data from the text file
38          printf("Data read from file:\n");
39          while (fgets(data, sizeof(data), file) != NULL) {
40              printf("%s", data);
41          }
42          fclose(file);
43      }
44
45      int main() {
46          int choice;
47          while (1) {
48              printf("\nFile Handling Program\n");
49              printf("1. Write to File\n");
50              printf("2. Read from File\n");
51              printf("3. Exit\n");
52              printf("Enter your choice (1/2/3): ");
53              scanf("%d", &choice);
54
55              switch (choice) {
56                  case 1:
57                      write_file();
58                      break;
59                  case 2:
60                      read_file();
61                      break;
62                  case 3:
63                      printf("Thank you for!\n");
64                      exit(0);
65                  default:
66                      printf("Invalid choice. Please try again.\n");
67              }
68          }
69          return 0;
70      }
71
```

Output:

```
"C:\Users\Nathaly Pearl\OneDrive\Documents\Nathaly Folder\2nd year college\Program Languange\Prog Languang
File Handling Program
1. Write to File
2. Read from File
3. Exit
Enter your choice (1/2/3): 2
Data read from file:
si peanut mabango
File Handling Program
1. Write to File
2. Read from File
3. Exit
Enter your choice (1/2/3): 1
Enter data to write to the text file: tapos na
Data written successfully!

File Handling Program
1. Write to File
2. Read from File
3. Exit
Enter your choice (1/2/3): 2
Data read from file:
tapos na
File Handling Program
1. Write to File
2. Read from File
3. Exit
Enter your choice (1/2/3):
```

Text File:

```
example                    ×    +

File    Edit    View

tapos na
```