



PF Lab 9

Submitted b: **Zulkifal khan**

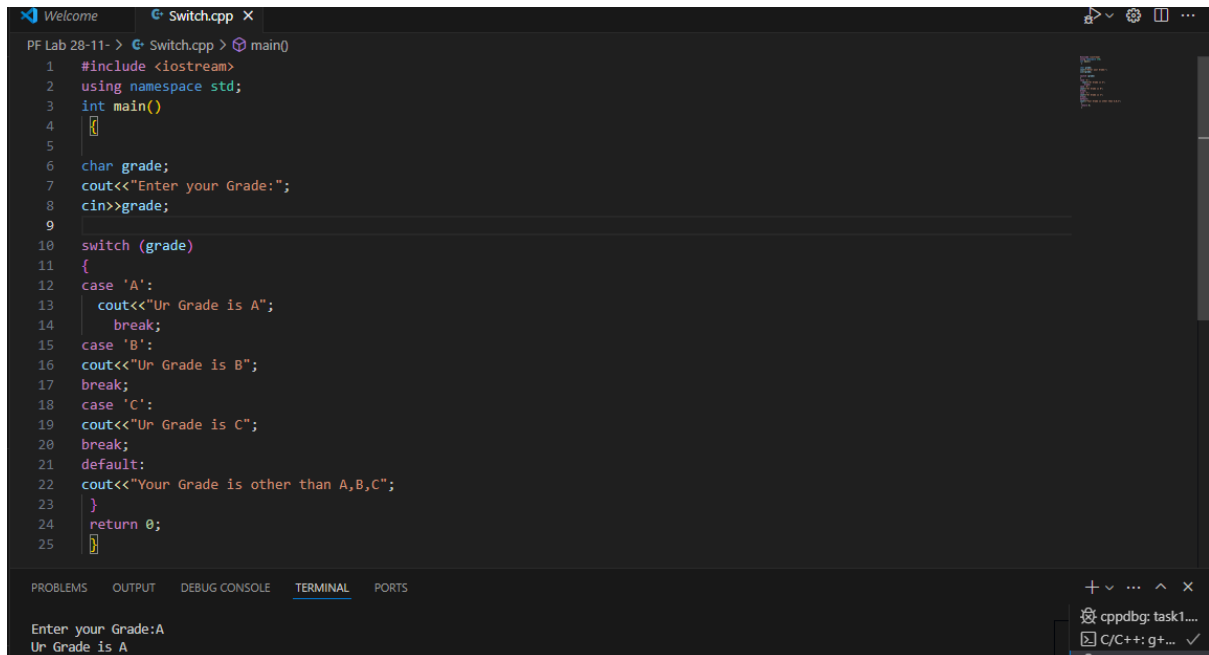
Roll No: **2430-0071**

Class Section: **BSSE_Fall_2024**

“Education is the Key to Unlock the Golden Door of freedom”

Submitted to: **Natasha Saeed**

Task 1:

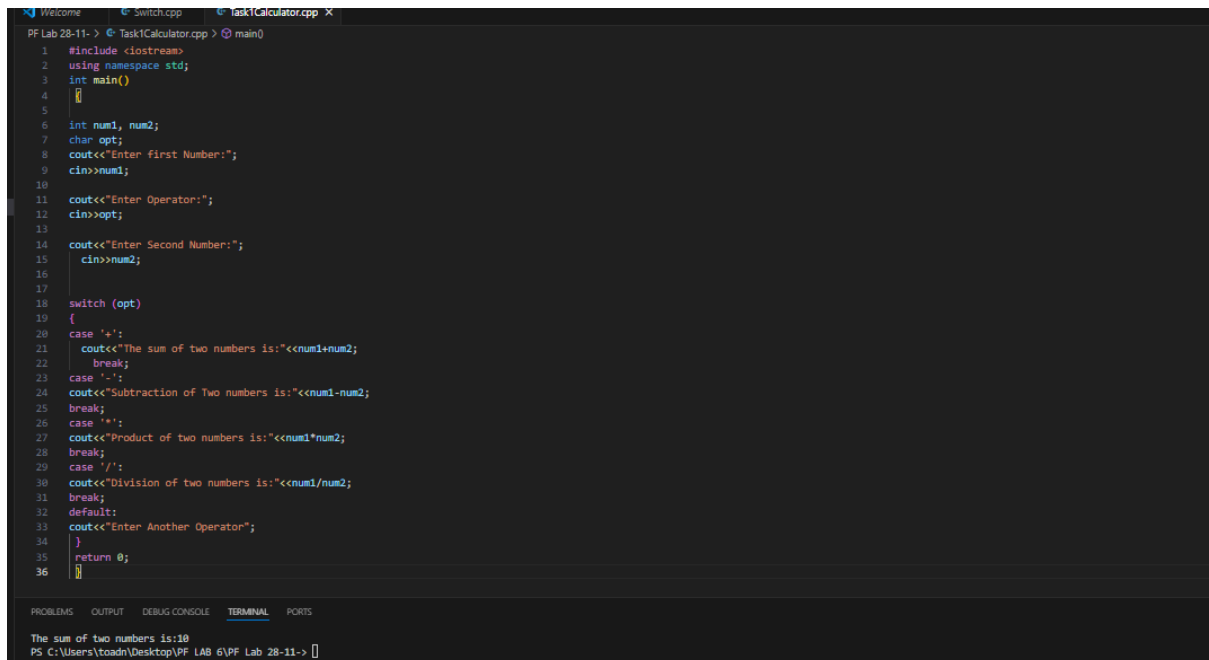


The screenshot shows a C++ IDE with a file named `Switch.cpp`. The code implements a switch statement that takes a character input representing a grade and prints the corresponding message. The terminal shows the program being executed with the input 'A', resulting in the output 'Ur Grade is A'.

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5
6     char grade;
7     cout<<"Enter your Grade:";
8     cin>>grade;
9
10    switch (grade)
11    {
12    case 'A':
13        cout<<"Ur Grade is A";
14        break;
15    case 'B':
16        cout<<"Ur Grade is B";
17        break;
18    case 'C':
19        cout<<"Ur Grade is C";
20        break;
21    default:
22        cout<<"Your Grade is other than A,B,C";
23    }
24    return 0;
25 }
```

Enter your Grade:A
Ur Grade is A

Task 2:



The screenshot shows a C++ IDE with a file named `task1Calculator.cpp`. The code implements a simple calculator using a switch statement to handle different operators. The terminal shows the program being executed with the input '10 + 10', resulting in the output 'The sum of two numbers is:10'.

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5
6     int num1, num2;
7     char opt;
8     cout<<"Enter First Number:";
9     cin>>num1;
10
11    cout<<"Enter Operator:";
12    cin>>opt;
13
14    cout<<"Enter Second Number:";
15    cin>>num2;
16
17    switch (opt)
18    {
19    case '+':
20        cout<<"The sum of two numbers is:"<<num1+num2;
21        break;
22    case '-':
23        cout<<"Subtraction of Two numbers is:"<<num1-num2;
24        break;
25    case '*':
26        cout<<"Product of two numbers is:"<<num1*num2;
27        break;
28    case '/':
29        cout<<"Division of two numbers is:"<<num1/num2;
30        break;
31    default:
32        cout<<"Enter Another Operator";
33    }
34    return 0;
35 }
```

The sum of two numbers is:10
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->

Task 3:

```

PF Lab 28-11-> @ Task3vowels.cpp > main()
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     Click to collapse the range.
6
7     cout<<"Enter any Alphabet:";
8     cin>>alphabet;
9
10    switch (alphabet) {
11
12    case 'a':
13    case 'A':
14        cout<<"A is Vowel";
15        break;
16
17    case 'e':
18    case 'E':
19        cout<<"E is a Vowel";
20        break;
21
22    case 'i':
23    case 'I':
24        cout<<"I is a Vowel";
25        break;
26
27    case 'o':
28    case 'O':
29        cout<<"O is a vowel";
30        break;
31
32    case 'u':
33    case 'U':
34        cout<<"U is a vowel";
35        break;
36
37    default:
38        cout<<"Enter another Alphabet";
39    }
40 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> & 'c:\Users\toadn\.vscode\extensions\ms-vscode.cpptools-1.23.1-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-10mxelon.ucl' '--std
out=Microsoft-MIEngine-Out-yrxpkepn.i2q' '--stderr=Microsoft-MIEngine-Error-sq5x5yb.zcu' '--pid=Microsoft-MIEngine-Pid-cbixhgf.top' '--dbgExe=D:\TASK\Lab Task - 1\vcrt64\bin\gdb.exe' '--interpreter=mi'
Enter any Alphabet:u
U is a vowel
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->

```

Task 4:

```

PF Lab 28-11-> @ task4.cpp > main()
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5
6     char Grade;
7     cout<<"Enter Grade is:";
8     cin>>Grade;
9
10    switch (Grade)
11    {
12
13        case 'A':
14            cout<<"Excellent";
15            break;
16        case 'B':
17            cout<<"Good";
18            break;
19        case 'C':
20            cout<<"Average";
21            break;
22        case 'D':
23            cout<<"Poor";
24            break;
25        case 'F':
26            cout<<"Unsatisfied";
27            break;
28
29        default:
30            cout<<"Invalid. Enter A,B,C,D,or,F";
31    }
32 }
33

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

Enter Grade:A
Excellent
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> ^C
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> & 'c:\Users\toadn\.vscode\extensions\ms-vscode.cpptools-1.23.1-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-soj4nie2.hvc' '--std
out=Microsoft-MIEngine-Out-1282mct1.23r' '--stderr=Microsoft-MIEngine-Error-an3kap5m.zy' '--pid=Microsoft-MIEngine-Pid-k1ujvhg5.fdz' '--dbgExe=D:\TASK\Lab Task - 1\vcrt64\bin\gdb.exe' '--interpreter=mi'
Enter Grade is:F
Unsatisfied
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->

```

Task 5:

```

1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      char Menu;
6      int current_amount = 100000;
7      cout<<"Display a menu"<<endl;
8      cout<<"1. Deposit"<<endl;
9      cout<<"2. Withdraw"<<endl;
10     cout<<"3. Check Balance"<<endl;
11     cout<<"4. Exit"<<endl;
12
13     switch (Menu)
14     {
15         case '1':
16             cout<<"Deposit the Amount";
17             break;
18         case '2':
19             cout<<"Withdraw the Cash";
20             break;
21         case '3':
22             cout<<"Check Balance";
23             break;
24         case '4':
25             cout<<"Exit";
26             break;
27         default:
28             cout<<"Enter another number";
29     }
30
31     return 0;
32 }
33

```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> & 'c:\Users\toadn\.vscode\extensions\ms-vscode.cpptools-1.23.1-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-ps3yhez_jbb' '--stdout=Microsoft-MIEngine-Out-fj3prtbv.qvu' '--stderr=Microsoft-MIEngine-Error-ug52lbn.kqi' '--pid=Microsoft-MIEngine-Pid-cgsje8tw.mpb' '--dbgExe=D:\TASK\Lab Task - 1\ucrt64\bin\gdb.exe' '--interpreter=mi'

Display a menu
1. Deposit
2. Withdraw
3. Check Balance
4. Exit

Task 6:

```

PF Lab 28-11-> @ tsuk.cpp > main()
1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      Click to collapse the range.
6      cout<<"Enter traffic Light:";
7      cin>>Traffic_Light;
8
9      switch (Traffic_Light)
10     {
11         case 'R':
12             cout<<"Stop";
13             break;
14         case 'G':
15             cout<<"Go";
16             break;
17         case 'Y':
18             cout<<"Slow down";
19             break;
20         default:
21             cout<<"Invalid. Enter R,G,Y";
22     }
23     return 0;
24 }
25
26
27

```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS

PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> ==C
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> & 'c:\Users\toadn\.vscode\extensions\ms-vscode.cpptools-1.23.1-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-e58kwp1.avg' '--stdout=Microsoft-MIEngine-Out-pdit3lxa.tne' '--stderr=Microsoft-MIEngine-Error-1o4k3fak.44n' '--pid=Microsoft-MIEngine-Pid-d3fhiv0h.1b0' '--dbgExe=D:\TASK\Lab Task - 1\ucrt64\bin\gdb.exe' '--interpreter=mi'

Enter traffic Light:R
Stop
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> |

Click to collapse the range.

Task 7:

```

PF Lab 28-11- > @ task8.cpp > main()
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     Click to collapse the range.
6     cout<<"Enter traffic Light:";
7     cin>>Traffic_Light;
8
9     switch (Traffic_Light)
10    {
11        case 'R':
12            cout<<"Stop";
13            break;
14        case 'G':
15            cout<<"Go";
16            break;
17        case 'Y':
18            cout<<"Slow down";
19            break;
20        default:
21            cout<<"Invalid. Enter R,G,Y";
22    }
23    return 0;
24 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> ==C
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11-> & 'C:\Users\toadn\.vscode\extensions\ms-vscode.cpptools-1.23.1-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-e5%Ap1.avg' '--std
out=Microsoft-MIEngine-Out-pd1t3ixa.tne' '--stderr=Microsoft-MIEngine-Error-1o4k3Fak.44n' '--pid=Microsoft-MIEngine-Pid-d3Phiv0h.1b0' '--dbgExe=0:\TASK\Lab Task - 1\ucrt64\bin\gdb.exe' '--interpreter=m1
Enter traffic Light:R
Stop
PS C:\Users\toadn\Desktop\PF LAB 6\PF Lab 28-11->

```

Task 8:

```

PF Lab 28-11- > @ task8.cpp > main()
1 int main()
2 {
3     int integers;
4     cout<<"Enter a integers:";
5     cin>>integers;
6     switch (integers)
7     {
8         case '0':
9             cout<<"Zero";
10            break;
11        case '1':
12            cout<<"One";
13            break;
14        case '2':
15            cout<<"Two";
16            break;
17        case '3':
18            cout<<"three";
19            break;
20        case '4':
21            cout<<"four";
22            break;
23        case '5':
24            cout<<"five";
25            break;
26        case '6':
27            cout<<"six";
28            break;
29        case '7':
30            cout<<"seven";
31            break;
32        case '8':
33            cout<<"eight";
34            break;
35        case '9':
36            cout<<"Nine";
37            break;
38        case '10':
39            cout<<"Ten";
40            break;
41    }
42    return 0;

```

Task 9:

PF Lab 2B-11: > @ task8Lab9.cpp > main()

```
3  int main()
4  {
5      int integers;
6      cout<<"Enter a integers:";
7      cin>>integers;
8
9      switch (integers)
10     {
11         case '0':
12             cout<<"Zero";
13             break;
14
15         case '1':
16             cout<<"One";
17             break;
18
19         case '2':
20             cout<<"Two";
21             break;
22
23         case '3':
24             cout<<"Three";
25             break;
26
27         case '4':
28             cout<<"Four";
29             break;
30
31         case '5':
32             cout<<"Five";
33             break;
34
35         case '6':
36             cout<<"Six";
37             break;
38
39         case '7':
40             cout<<"Seven";
41             break;
42         case '8':
43             cout<<"Eight";
44             break;
45         case '9':
46             cout<<"Nine";
47             break;
48         case '10':
49             cout<<"Ten";
50             break;
51     }
52     return 0;
53 }
```