

All the Activity made by HASSAN QAMAR:

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DO NOT COPY

- In this Activity the student just have to Download and Install Dev-C++
- 1. Download Dev-C++ from https://sourceforge.net/projects/orwelldevcpp/
- 2. After downloading install Dev-C++ by clicking on executable file.

```
#include <iostream>
   using namespace std;
3 □ int main() {
        cout << "\n\n\t\t JAMSHORO \n";
        cout << "\t=======\n";
        cout << "\t\t Welcome to \n";</pre>
7
        cout << "\t Sindh Textbook Board";</pre>
8
        return 0;
9 L }
  E:\Edu\Class 10\Practical Journal\Activity no 02\Project1.exe
       _____
              Welcome to
        Sindh Textbook Board
 Process exited after 0.122 seconds with return value 0
 Press any key to continue . . .
```

```
using namespace std;
 5 = int main() {
          cout << "\n\n\t Size of fundamental data types in C++ (in bytes):\n";</pre>
 6
 7
          cout << "\t -----\n";
 8
          cout << "\tThe Size of character is:
                                                     " << sizeof(char) <<"bytes \n";
 9
10
          cout << "\tThe Size of integer is:</pre>
                                                      " << sizeof(int) << "bytes \n";
11
          cout << "\tThe Size of long is:
                                                      " << sizeof(long) << "bytes \n";
12
13
          cout << "\tThe Size of float is:
                                                      " << sizeof(float) << "bytes \n";
          cout << "\tThe Size of double is:
14
                                                      " << sizeof(double) << "bytes \n";
15
16
          cout << "\tThe Size of boolean is:
                                                      " << sizeof(bool) << "bytes \n";
17
18
          cout << "\tThe Size of short is:
                                                      " << sizeof(short) << "bytes \n";
19
          cout << "\tThe Size of long long is:
                                                      " << sizeof(long long) << "bytes \n";
      //the size of short and Long is not define in the Practical journal but i did it because it is fundamental data types
20
21
          return 0;
22
23
      E:\Edu\Class 10\Practical Journal\Activity no 03\Project1.exe
                                                                                                     24
BB Co
             Size of fundamental data types in C++ (in bytes):
            The Size of character is:
            The Size of integer is:
                                        4bvtes
            The Size of long is:
                                        4bytes
            The Size of float is:
                                        4bytes
            The Size of double is:
Sho
                                        8bytes
            The Size of boolean is:
                                        1bytes
            The Size of short is:
            The Size of long long is:
                                        8bytes
      Process exited after 0.124 seconds with return value 0
                                                                                                                 96.42 files per sec
    2Press any key to continue . . .
```

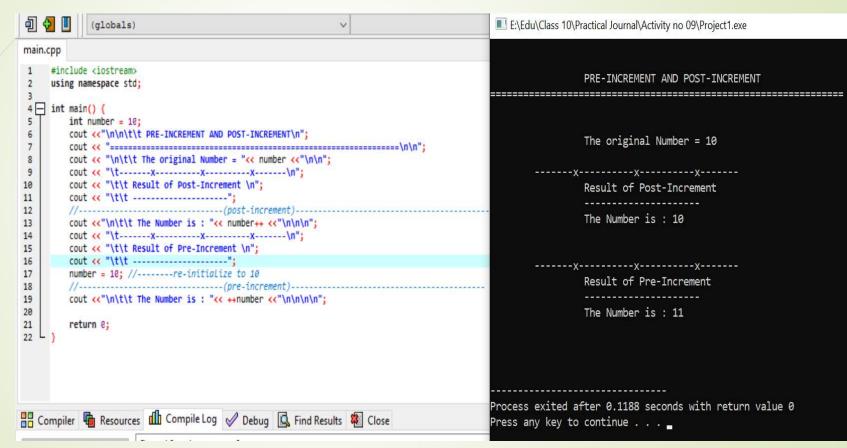
```
#include <iostream>
 2
 3
     using namespace std;
 5 int main() {
         int a, b, sum;
 7
 8
         cout << "\n\t Enter the value in variable a = ";
 9
         cin >> a:
 10
         cout << "\n\t Enter the value in variable b = ";
 11
12
         cin >> b;
13
14
         sum = a+b;
 15
         cout <<"\n\t=======":
 16
         cout << "\n\t The sum of a+b = "<<sum;
 17
         cout <<"\n\t----\n\n";
18
 19
 20
         return 0;
 21
 22
     E:\Edu\Class 10\Practical Journal\Activity no 04\Project1.exe
            Enter the value in variable a = 3
            Enter the value in variable b = 4
           ______
            The sum of a+b = 7
Sh
           ______
    Process exited after 7.434 seconds with return value 0
    Press any key to continue . . .
Line:
```

```
■ E:\Edu\Class 10\Practical Journal\Activity no 05\Project1.exe
 Untitled2.cpp
 1 #include <iostream>
       using namespace std;
 4 int main() {
                                                                                                                                                   CALCULATE TOTAL, PERCENTAGE AND GRADES
          int math, english, urdu, computer, science, total, percent;
cout << "\n\n\t\t\t\t\ CALCULATE TOTAL, PERCENTAGE AND GRADES \n":
                                                                                                                         _______
          cout << "\t\t=====\n\n";
                                                                                                                                               Enter marks obtained in Math: 60
           cout << "\t\t\t Enter marks obtained in Math : ";
10
11
12
                                                                                                                                               Enter marks obtained in English: 70
                                                                                                                                               Enter marks obtained in Urdu: 80
          cout << "\t\t\t Enter marks obtained in English : ";
13
          cin >> english;
                                                                                                                                               Enter marks obtained in Computer: 90
14
                                                                                                                                               Enter marks obtained in Science: 99
15
16
17
          cout << "\t\t\t Enter marks obtained in Urdu : ";</pre>
          cin >> urdu:
18
          cout << "\t\t\t Enter marks obtained in Computer : ";
19
          cin >> computer;
20
21
22
23
24
25
26
27
28
29
30
31
          cout << "\t\t\t Enter marks obtained in Science : ";
                                                                                                     (Each subject carry 100 Marks )
          cout << "\n\n\t\t\t\t\t-----x-----x-----x-----\n\n";
          cout << "(Each subject carry 100 Marks )\n\n";
                                                                                                     The total is equal to : 399
          total = math + english + urdu + computer + science;
                                                                                                     The percentage is equal to : 79%
          cout << "The total is equal to : "<< total<<"\n";
          percent = total * 100 / 500;
          cout << "The percentage is equal to : "<< percent<<"%\n\n\n";</pre>
          char grade;
                                                                                                                                             The Grade is equal to A
          if (percent >= 33 88 percent <=40 )
             cout << "\t\t\t\The Grade is equal to E \n\n\n ";
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
          }else if (percent >= 41 88 percent <=50 ) {
             cout << "\t\t\t\tThe Grade is equal to D \n\n\n ";
          }else if (percent >= 51 && percent <=60 )
             cout << "\t\t\t\tThe Grade is equal to C \n\n\n ";
          }else if (percent >= 61 && percent <=70 )
            cout << "\t\t\t\The Grade is equal to B \n\n\n ";
                                                                                                     Process exited after 28.5 seconds with return value 0
          }else if (percent >= 71 && percent <=80 )
                                                                                                     Press any key to continue . . .
             cout << "\t\t\t\tThe Grade is equal to A \n\n\n ";
          }else if (percent >= 80 88 percent <=100 )
             cout << "\t\t\t\tThe Grade is equal to A1 \n\n\n ";
             cout << "\t\t\t\t Out of Range \n\n\n";
          return e;
 48 L )
```

```
File Edit Search View Project Execute Tools AStyle Window Help
 Enter 10 characters
· 回 🗗 🔳
         (globals)
Untitled2.cpp
 1 #include <iostream>
   #include <comio.h>
    using namespace std;
 6 ☐ int main() {
        cout << "\n\t\t\t Enter 10 characters \n ";
        cout << "\n\t\t=====\n";
        char op[10];
10
        for (int i = 0; i < 10; i++) {
11 =
           cout <<"\t\t";
12
13
          op[i] = getch();
            cout <<" "<< op[i] <<"\t\t\n\n";
14
15
16
17
        return 0;
                                                                 Process exited after 7.315 seconds with return value 0
18 L
                                                                 Press any key to continue . . .
On Committee B December of Committee on and Dahmer To Eind Danibe 19 Clare
```

```
#include <iostream>
    using namespace std;
    int main()
       cout << "\n\t======\n\n";
 7
       cout << "\t\t\'S\'\t\'T\'\t\'B\'\t\n\n";</pre>
 8
       cout <<"\t\t\t\"JAMSHORO\"\n";
 9
       cout << "\n\t======\n\n";
10
       return 0;
11 - }
    E:\Edu\Class 10\Practical Journal\Activity no 07\Project1.exe
        "JAMSHORO"
        ______
   Process exited after 0.1241 seconds with return value 0
Shor Press any key to continue . . . _
```

```
#include <iostream>
 2
 3
      using namespace std;
 4 ☐ int main() {
 5
          cout << "\n\n";
          cout << " *\n *\t*\n *\t*\n *\t*\n *";
 6
 7
          cout << "\n\n";
 8
          return 0;
 9
      E:\Edu\Class 10\Practical Journal\Activity no 08\Project1.exe
Process exited after 0.1063 seconds with return value 0
     Press any key to continue . . .
```



```
(globals)
                                                                                E:\Edu\Class 10\Practical Journal\Activity no 10\Project2.exe
Untitled3.cpp
     #include <iostream>
     using namespace std;
                                                                                              PRE-DECREMENT AND POST-DECREMENT
 4 - int main() {
       int number = 10;
        cout << "\n\n\t\t PRE-DECREMENT AND POST-DECREMENT\n";
        cout << "----\n\n";
                                                                                              The original Number = 10
        cout << "\n\t\t The original Number = "<< number << "\n\n";
        cout << "\t-----\n";
        cout << "\t\t Result of Post-Decrement \n";
10
11
        cout << "\t\t -----":
                                                                                              Result of Post-Decrement
12
        //-----(post-decrement)-----
13
        cout <<"\n\t\t The Number is : "<< number -- <<"\n\n\n";
                                                                                              The Number is: 10
14
        cout << "\t-----\n":
15
        cout << "\t\t Result of Pre-Decrement \n";
16
        cout << "\t\t -----";
17
        number = 10; //-----re-initialize to 10
                                                                                      -----x-----x-----x-----x-----
        //----(pre-decrement)-----
18
                                                                                              Result of Pre-Decrement
19
        cout <<"\n\t\t The Number is : "<< --number <<"\n\n\n\n";
                                                                                              _____
20
21
                                                                                              The Number is: 9
        return e;
22 L
Compiler Resources (Compile Log Debug Sprind Results Close
                                                                               Process exited after 0.09768 seconds with return value 0
                                                                               Press any key to continue . . . _
                   Compilation results...
```

```
E:\Edu\Class |U\Fractical Journal\Activity no || |Froject || exe
 · 回 🗗 🔳
             (globals)
main.cpp
                                                                                          SWAPS TWO NUMBERS USING TEMPORARY VARIABLES
      #include <iostream>
     using namespace std;
 4 | int main() {
                                                                                                Enter 1st number : 5
         cout << "\n\n\t\t SWAPS TWO NUMBERS USING TEMPORARY VARIABLES \n";
                                                                                                Enter 2nd number : 10
 6
         cout << "\t\t======\n\n";
         int number1, number2, temp;
         cout << "\t\t\t Enter 1st number : ":
 8
 9
                                                                                       -----x----x----x----x
         cin >> number1;
         cout << "\t\t\t Enter 2nd number : ";
11
         cin >> number2;
                                                                                      Before Swapping the 1st number is : 5
         cout << "\n\n\t\t-----x-----x-----\n\n":
12
                                                                                      Before Swapping the 2nd number is: 10
13
         cout << " \t\tBefore Swapping the 1st number is : "<< number1 <<"\n";</pre>
         cout << " \t\tBefore Swapping the 2nd number is : "<< number2 <<"\n\n";
14
15
         temp = number2;
16
         number2 = number1;
17
         number1 = temp;
         cout << "\n\n\t\t-----\n\n";
18
19
         cout << " \t\t After Swapping the 1st number is : "<< number1 <<"\n";
                                                                                        After Swapping the 1st number is: 10
20
         cout << " \t\t After Swapping the 2nd number is : "<< number2 << "\n\n";
21
                                                                                        After Swapping the 2nd number is : 5
         return 0;
22 - }
                                                                      Process exited after 6.093 seconds with return value 0
                                                                      Press any key to continue . . .
Compiler Resources Compile Log Debug 🖟 Find Results 🤻 Close
```

```
2 2 9
                                                                         E:\Edu\Class 10\Practical Journal\Activity no 12\Project1.exe
            (globals)
main.cpp
                                                                                           SWAPS TWO NUMBERS WITHOUT USING TEMPORARY VARIABLES
     #include <iostream>
     using namespace std;
 4 - int main() {
                                                                                                 Enter 1st number : 20
        cout << "\n\n\t\t SWAPS TWO NUMBERS WITHOUT USING TEMPORARY VARIABLES \n";
                                                                                                 Enter 2nd number : 40
        cout << "\t\t======\n\n";
        int number1, number2;
        cout << "\t\t\t Enter 1st number : ";
        cin >> number1;
                                                                                         -----X-----X
10
        cout << "\t\t Enter 2nd number : ";
11
        cin >> number2;
                                                                                        Before Swapping the 1st number is : 20
12
        cout << "\n\n\t\t-----x-----\n\n":
        cout << " \t\tBefore Swapping the 1st number is : "<< number1 << "\n";
13
                                                                                        Before Swapping the 2nd number is: 40
        cout << " \t\tBefore Swapping the 2nd number is : "<< number2 <<"\n\n";
14
15
        number2 = number2 + number1:
16
        number1 = number2 - number1:
17
        number2 = number2 - number1;
        cout << "\n\n\t\t-----x-----\n\n":
18
19
        cout << " \t\t After Swapping the 1st number is : "<< number1 <<"\n";
20
        cout << " \t\t After Swapping the 2nd number is : "<< number2 << "\n\n";
                                                                                         After Swapping the 1st number is: 40
21
        return e:
                                                                                         After Swapping the 2nd number is : 20
22 - }
                                                                        Process exited after 6.503 seconds with return value 0
                                                                        Press any key to continue . . .
Compiler Resources ( Compile Log Debug  Find Results  Close
```

```
#include <iostream>
     using namespace std;
3 - int main() {
                                                                                                               ADD, SUBTRACT, MULTIPLY AND DIVIDE TWO NUMBERS USING ARITHEMATIC OPERATOR
         cout << "\n\n\t\t ADD, SUBTRACT, MULTIPLY AND DIVIDE TWO NUMBERS USING ARITHEMATIC OPERATOR \n"
         cout << "\t\t=====\n\n"
        int number1, number2, result;
                                                                                                                             Enter 1st Number : 40
        cout << "\t\t\t Enter 1st Number : ";
                                                                                                                             Enter 2nd Number: 20
        cin >> number1;
        cout << "\t\t\t Enter 2nd Number : ";
10
        cin >> number2;
        cout << "\n\n\t\t\t\t-----\n\n";
11
12
        result = number1 + number2;
13
        cout << "\t\t\t The Result of Number1 + Number2 : "<<result <<"\n";</pre>
                                                                                                                             The Result of Number1 + Number2 : 60
        result = number1 - number2;
14
                                                                                                                             The Result of Number1 - Number2 : 20
        cout << "\t\t\t The Result of Number1 - Number2 : "<<result <<"\n";
15
                                                                                                                             The Result of Number1 * Number2 : 800
16
        result = number1 * number2;
                                                                                                                             The Result of Number1 / Number2 : 2
17
        cout << "\t\t\t The Result of Number1 * Number2 : "<<result <<"\n";
18
        result = number1 / number2;
19
        cout << "\t\t\t The Result of Number1 / Number2 : "<<result <<"\n";</pre>
                                                                                              Process exited after 14.01 seconds with return value 0
20
         return 0;
                                                                                             Press any key to continue . . .
21 L
```

```
#include <iostream>
     using namespace std;
 3 - int main() {
                                                                                                             CALCULATE THE TOTAL AND AVERAGE OF SIX NUMBERS
         cout << "\n\n\t\t CALCULATE THE TOTAL AND AVERAGE OF SIX NUMBERS \n":
         cout << "\t\t======\n\n"
        int number1, number2, number3, number4, number5, number6, total;
        float avg;
                                                                                                                          Enter 1st number : 2
        cout << "\t\t\t Enter 1st number : ";
                                                                                                                          Enter 2nd number : 3
        cin >> number1;
                                                                                                                          Enter 3rd number : 4
10
        cout << "\t\t\t Enter 2nd number : ";
                                                                                                                          Enter 4th number : 5
11
        cin >> number2;
12
        cout << "\t\t\t Enter 3rd number : ";
                                                                                                                          Enter 5th number : 6
13
        cin >> number3;
                                                                                                                          Enter 6th number : 7
14
        cout << "\t\t\t Enter 4th number : ";
15
        cin >> number4;
        cout << "\t\t\t Enter 5th number : ";
16
17
        cin >> number5;
                                                                                                                         -----x-----x-----x-----x-----x-----
18
        cout << "\t\t\t\t Enter 6th number : ";
19
        cin >> number6;
                                                                                                                         The Total is equal to : 27
20
        cout <<"\n\n\t\t\t\t-----\n\n";
                                                                                                                         The Average is equal to : 4
21
        total = number1 + number2 + number3 + number4 + number5 + number6;
22
        cout << "\t\t\t The Total is equal to : "<< total <<"\n";
23
        avg = total / 6;
24
        cout << "\t\t\t The Average is equal to : "<< avg <<"\n\n\n";</pre>
25
         return 0;
26 L }
                                                                                        Process exited after 13.93 seconds with return value 0
Compiler Resources Compile Log Debug Sprind Results Close
                                                                                        Press any key to continue . . .
```

```
#include <iostream>
     using namespace std;
 3 - int main() {
         int number;
         cout << "\n\n\t\t\t CHECK WHETHER THE NUMBER IS POSITIVE , NEGATIVE OR ZERO \n";
         cout << "\t\t\t-----\n":
 6
 7
         cout << "\t\t\t\t\t\t\t Enter a number : ";
         cin >> number:
         if(number > 0)
 9
10 -
            cout << "\n\n\t\t\t\t\t The Number is Positive.";
11
12
13
         else if(number < 0)
14 -
15
            cout << "\n\n\t\t\t\t\t\t The Number is Negative.\n\n";</pre>
16
17
            cout << "\n\n\t\t\t\t\t The Number is Zero.\n\n";
18
19
20
         return 0;
  E:\Edu\Class 10\Practical Journal\Activity no 15\Project1.exe
                                     CHECK WHETHER THE NUMBER IS POSITIVE , NEGATIVE OR ZERO
                                                      Enter a number : 5
                                                      The Number is Positive.
Process exited after 9.896 seconds with return value 0
 Press any key to continue . . . _
```

```
#include <iostream>
     using namespace std;
3 - int main() {
         int radius;
5
         float vol sp;
6
         cout << "\n\n\t\t\t CALCULATE THE VOLUME OF A SPHERE \n";
         cout << "\t\t\=====\n":
         cout << "\t\t\t Enter the radius of a sphere : ";
9
         cin >> radius;
         vol_sp = (4*3.14*radius*radius*radius)/3;
10
11
         cout << "\n\n\t\t The volume of a sphere is : "<< vol_sp <<"\n\n\n\n";</pre>
12
13
         return 0;
14
■ E:\Edu\Class 10\Practical Journal\Activity no 16\Project1.exe
                                    CALCULATE THE VOLUME OF A SPHERE
```

```
CALCULATE THE VOLUME OF A SPHERE

Enter the radius of a sphere : 6

The volume of a sphere is : 904.32

Process exited after 3.612 seconds with return value 0

Press any key to continue . . . .
```

```
#include <iostream>
     using namespace std;
    int main() {
        int side:
        float vol cube;
        cout << "\n\n\t\t\t\t CALCULATE THE VOLUME OF A CUBE \n";
7
        cout << "\t\t\=====\n";
8
        cout << "\t\t\t Enter the side of a Cube : ";
9
        cin >> side;
10
        vol cube = (side*side*side);
        cout << "\n\n\t\t The volume of a Cube is : "<< vol cube << "\n\n\n\n\n";
11
12
13
        return 0;
14
E:\Edu\Class 10\Practical Journal\Activity no 17\Project1.exe
                                CALCULATE THE VOLUME OF A CUBE
                       ______
```

```
Enter the side of a Cube: 7
                        The volume of a Cube is: 343
Process exited after 5.042 seconds with return value 0
Press any key to continue . . .
```

```
#include <iostream>
     using namespace std;
3 = int main() {
        int height, radius;
        float vol_cyl;
6
        cout << "\n\n\t\t\t\t CALCULATE THE VOLUME OF A CYLINDER \n":
        cout << "\t\t\t=====\n";
        cout << "\t\t\t Enter the radius of a cylinder : ";
8
9
        cin >> radius;
        cout << "\t\t\t Enter the height of a cylinder : ";
10
11
        cin >> height;
12
        vol_cyl = (3.14*radius*radius*height);
13
        cout << "\n\n\t\t\t The volume of a Cylinder is : "<< vol_cyl << "\n\n\n\n";</pre>
14
15
        return 0;
16 L }
 E:\Edu\Class 10\Practical Journal\Activity no 18\Project1.exe
                                  CALCULATE THE VOLUME OF A CYLINDER
                         ______
                          Enter the radius of a cylinder: 7
                         Enter the height of a cylinder: 9
                         The volume of a Cylinder is: 1384.74
Process exited after 33.61 seconds with return value 0
Press any key to continue . . .
```

```
#include <iostream>
      using namespace std;
 3 - int main(){
         int length, width, area;
         cout << "\n\n\t\t\t\t CALCULATE THE AREA OF A RECTANGLE \n";
 5
         cout << "\t\t\=====\n";
         cout << "\t\t\t Enter the length : ";
         cin >> length;
         cout << "\t\t\t Enter the width : ";
 9
10
         cin >>width;
11
         area = (length * width);
         cout << "\n\n\t\t\t The Area of a Rectangle is : "<< area<<"\n\n\n\n\n";
12
13
14
         return 0;
15
E:\Edu\Class 10\Practical Journal\Activity no 19\Project1.exe
                                 CALCULATE THE AREA OF A RECTANGLE
                        ______
                         Enter the length: 5
                         Enter the width: 8
                         The Area of a Rectangle is: 40
Process exited after 6.2 seconds with return value 0
Press any key to continue . . . _
```

```
#include <lostream>
     using namespace std;
2
3 - int main(){
         float km, meter, cent;
         cout << "\n\n\t\t\t CONVERT CENTIMETER INTO METER AND KILOMETER \n";</pre>
         cout << "\t\t======\n\n";
6
         cout << "\t\t\t Enter the value in centimeter : ";
8
         cin >>cent;
9
         meter = (cent / 100);
10
         km = (cent/100000);
11
         cout << "\n\n\t\t The value in meter is : "<< meter<<"\n\n";
         cout << "\n\n\t\t The value in kilometer is : "<< km<<"\n\n";</pre>
12
13
14
         return 0;
15
```

E:\Edu\Class 10\Practical Journal\Activity no 20\Project1.exe

```
CONVERT CENTIMETER INTO METER AND KILOMETER

Enter the value in centimeter : 20

The value in meter is : 0.2

The value in kilometer is : 0.0002

Process exited after 2.47 seconds with return value 0

Press any key to continue . . .
```

```
using namespace std;
3 - int main() {
        float fh, cel;
        cout << "\n\n\t\t\t CONVERT TEMPERATURE FROM FARHENHEIT TO CELSIUS \n";</pre>
        cout << "\t\t======\n\n";
        cout << "\t\t Enter the value in Farhenheit : ":
8
        cin >> fh;
9
        cel = ((fh*5.0)-(5.0*32))/9;
10
        cout << "\n\n\t\t The value in Farhenheit is : "<<fh<<"\n\n";
        cout << "\t\t The value of celsius is : "<<cel<<"\n\n";
11
12
       return e;
13 - }
 E:\Edu\Class 10\Practical Journal\Activity no 21\Project1.exe
                         CONVERT TEMPERATURE FROM FARHENHEIT TO CELSIUS
                ______
                 Enter the value in Farhenheit: 30
                 The value in Farhenheit is: 30
                 The value of celsius is : -1.11111
Process exited after 10.75 seconds with return value 0
Press any key to continue . . . _
```

```
#include <iostream>
     using namespace std;
 3 - int main() {
         float fh. kelvin;
 5
         cout << "\n\n\t\t\t CONVERT TEMPERATURE FROM KELVIN TO FARHENHEIT \n";</pre>
         cout << "\t\t======\n\n":
         cout << "\t\t Enter the value in Kelvin : ";
8
         cin >> kelvin;
9
         fh = (9.0/5)*(kelvin - 273.15) + 32;
         cout << "\n\n\t\t The value in Kelvin is : "<<kelvin<< "\n\n";
10
11
         cout << "\t\t The value in Farhenheit is : "<<fh<<"\n\n";
         return 0;
12
13
```

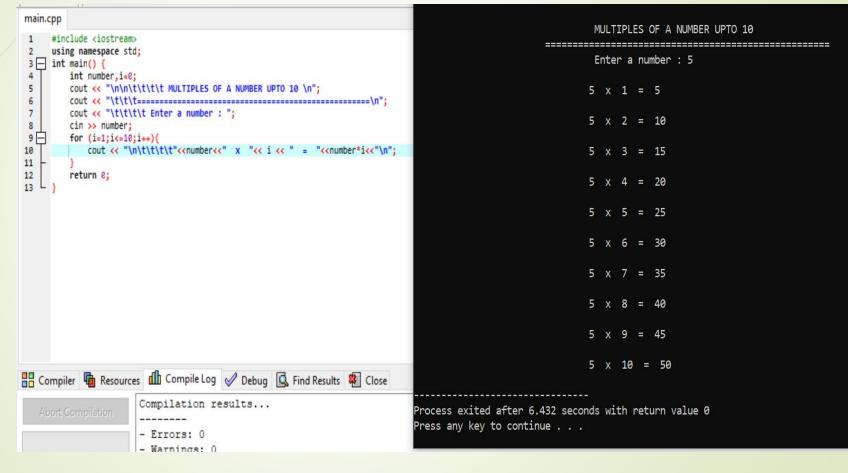
E:\Edu\Class 10\Practical Journal\Activity no 22\Project1.exe

```
#include <iostream>
     using namespace std;
3 - int main() {
        float Kelvin, cel;
        cout << "\n\n\t\t\t CONVERT TEMPERATURE FROM KELVIN TO CELSIUS \n";
6
        cout << "\t\t======\n\n";
7
        cout << "\t\t Enter the value in Kelvin : ";
        cin >> Kelvin;
9
        cel = Kelvin-273.15;
        cout << "\n\n\t\t The value in Kelvin is : "<<Kelvin<<"\n\n";
10
        cout << "\t\t The value of celsius is : "<<cel<<"\n\n";
11
12
        return 0;
13
E:\Edu\Class 10\Practical Journal\Activity no 23\Project1.exe
                       CONVERT TEMPERATURE FROM KELVIN TO CELSIUS
              ______
```

CONVERT TEMPERATURE FROM KELVIN TO CELSIUS Enter the value in Kelvin : 60 The value in Kelvin is : 60 The value of celsius is : -213.15 Process exited after 5.86 seconds with return value 0 Press any key to continue

```
#include <iostream>
     using namespace std;
 3 - int main() {
        float fh, kelvin;
        cout << "\n\n\t\t\t CONVERT TEMPERATURE FROM FAHRENHEIT TO KELVIN \n";
        cout << "\t\t======\n\n";
 6
 7
        cout << "\t\t Enter the value in fahrenheit : ";
 8
        cin >> fh;
        kelvin = (5.0 / 9) * (fh - 32) + 273.15;
 9
10
        cout << "\n\n\t\t The value in Fahrenheit is : "<<fh<<"\n\n";
        cout << "\t\t The value of kelvin is : "<<kelvin<<"\n\n";
11
12
        return e;
13 -
E:\Edu\Class 10\Practical Journal\Activity no 24\Project1.exe
                        CONVERT TEMPERATURE FROM FAHRENHEIT TO KELVIN
               ______
                Enter the value in fahrenheit: 55
                The value in Fahrenheit is: 55
                The value of kelvin is: 285.928
Process exited after 11.47 seconds with return value 0
Press any key to continue . . .
```

```
#include <iostream>
      using namespace std;
 3 - int main() {
         float cel, kelvin;
 5
         cout << "\n\n\t\t\t CONVERT TEMPERATURE FROM CELSIUS TO KELVIN \n";</pre>
         cout << "\t\t======\n\n";
 7
         cout << "\t\t Enter the value in celsius : ";
 8
         cin >> cel;
         kelvin = cel + 273.15;
         cout << "\n\n\t\t The value in Celsius is : "<<cel<<"\n\n";
10
         cout << "\t\t The value in kelvin is : "<<kelvin<<"\n\n";
11
12
         return e;
13
 E:\Edu\Class 10\Practical Journal\Activity no 25\Project1.exe
                           CONVERT TEMPERATURE FROM CELSIUS TO KELVIN
                  Enter the value in celsius: 44
                  The value in Celsius is: 44
                  The value in kelvin is: 317.15
Process exited after 2.344 seconds with return value 0
Press any key to continue . . .
```



```
#include <iostream>
      using namespace std;
  3 ☐ int main() {
           int n, i, j;
 4
 5
           n=5;
 6年
           for(i = 1; i \le n; i++){
                for(j = 1; j \leftarrow i; j \leftrightarrow){}
                     cout << "* ";
 8
 9
10
                cout<<"\n";
11
           return 0;
12
13 L }
E:\Edu\Class 10\Practical Journal\Activity no 27\Project1.exe
Process exited after 0.1165 seconds with return value 0
Press any key to continue . . . _
```

```
#include <iostream>
      using namespace std;
 3 ☐ int main() {
           int n, i, j;
 5
           n=5;
 6白7日
           for(i = n; i >= 1; i--){
                for(j = 1; j \leftarrow i; j \leftrightarrow ){}
                     cout << "* ";
 8
 9
10
                cout<<"\n";
11
12
           return 0;
13 L }
E:\Edu\Class 10\Practical Journal\Activity no 28\Project1.exe
Process exited after 0.1106 seconds with return value 0
Press any key to continue . . .
```

```
#include <iostream>
#include <algorithm>
                        using namespace std;
                      int main()
                                    int num[10];
                                    cout << "\n\n\t\t\t\t DESCENDING SORTING \n";
cout << "\t\t=====\n";</pre>
                                    cout << "\t\t\t\t Enter Numbers: ";
                                     for (int i = 0; i <= 9; i++){
 10
                                                cin >> num[i];
11
                                                 cout <<"\t\t\t\t\t\t\t";
12
13
                                    sort(num, num+12);
cout << "\n\t\t\t=====\n\n";</pre>
14
15
16
                       cout << "\t\t\t"<< num[9]<<" "<< num[8]<<" "<< num[8]</" "< num[8]</" "<< num[8]</" "< num[8]</" "<< num[8]</" "< num[8]</" "<< num[8]</" "<> num[8]</" "<< num[8]</" "< num[8]</" "<< num[8]</" "< num[8]</" "<< num[8]</" "< num[8]</" "<
17
18
                                                  cout << "\n\t\t\t=====";
19
 20
 21
                                    return e;
 22
    E:\Edu\Class 10\Practical Journal\Activity no 29\Project1.exe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X
                                                                                                                                 DESCENDING SORTING
                                                                                                                                 Enter Numbers: 0
                                                                                                                                                                                             8
                                                                                              -----
                                                                                             9876543210
Process exited after 8.998 seconds with return value 0
  Press any key to continue . . .
```

```
Winclude <algorithm>
       using namespace std;
      int main() {
          int num[10];
          cout << "\n\n\t\t\t\ ASCENDING SORTING \n";
          cout << "\t\t\t=====\n";
9日
          cout << "\t\t\t Enter Numbers: ";
          for (int i = 0; i <= 9; i++){
10
             cin >> num[i];
             cout <<"\t\t\t\t\t\t\t";
12
         sort(num, num+10);
cout << "\n\t\t=====\n\n";</pre>
14
16
      cout << "\t\t\t"<< num[0]<<" "<< num[1]<<" "<< num[2]<<" "<< num[3]<<" "<< num[4]<<" "<< num[5]<< " "<< num[6]<<" "<< num[7]<< " "<< num[8]<<" "<< num[8]<<" ";
17
18
             cout << "\n\t\t\t======";
19
20
21
          return 8;
22
  E:\Edu\Class 10\Practical Journal\Activity no 30\Project1.exe
                                                                                                                                       X
                               ASCENDING SORTING
                               Enter Numbers: 9
                       0123456789
 Process exited after 15.23 seconds with return value 0
 Press any key to continue \dots
```

```
1 #include <iostream>
    using namespace std;
 2
 4 ☐ int factorial(int number) {
         if (number == 0)
 6
            return 1;
7
         else
 8
            return number * factorial(number - 1);
10
11 = int main() {
12
13
         cout << "\n\n\t\t\t\t FACTORIAL OF A NUMBER \n";
14
         cout << "\t\t\t======\n";
15
         cout << "\n\t\t Enter a Number :";</pre>
16
         cin >> number;
17
         cout << "\n\t\t Factorial of " << number<< " is : " << factorial(number) << "\n\n";</pre>
18
19
         return 0;
20 L }
21
E:\Edu\Class 10\Practical Journal\Activity no 31\Project1.exe
                                                                                                            FACTORIAL OF A NUMBER
                Enter a Number :5
                Factorial of 5 is : 120
Process exited after 6.287 seconds with return value 0
 ress any key to continue . . . _
```

CREATE TRUTH TABLE OF AND & OR LOGIC GATES USING THREE INPUTS

TRUTH TABLE:

INPUT 1	INPUT 2	INPUT 3	AND	OR
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	0	1
1	0	0	0	1
1	0	1	0	1
1	1	0	0	1
1	1	1	1	1

MADE BY HASSAN QAMAR: