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Section: 2A







Code No 1

```
C 1.cpp > → main()
1  #include <iostream> // Including the header file input output stream
2  using namespace std; // Including the std to use cout only
3
4  int main() // Main Function that will return an integer
5  int number = 10; // Declaring the variable with initial value 10
7  cout << "The Value of the Number is = " << number << endl; // Printing the Value that number have
8  cout << "The Address of the Number is = " << &number << endl; // Printing the address using reference operator return 0; // Returning and integer</pre>
10 }
```

Output DEBUGONSOLE

PROBLEMS

опприл

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiirr/SEMESTER
/"1
The Value of the Number is = 10
The Address of the Number is = 0x7ffdec5d7cf4
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$
```

code No 2

```
← 2.cpp > 分 main()

     #include <iostream> // Including the header file input output stream
     using namespace std; // Including the std to use cout only
     int main() // Main Function that will return an integer
 5
 6
         int varOne = 3; // Initaling the varone with 3
         int varTwo = 5; // Initaling the varTwo with 5
         int varThree = 45; // Initaling the varthree with 45
         cout << "The VarOne has a Address: " << &varOne << endl; // Printing the Address using derefrence operator</pre>
 9
         cout << "The VarTwo has a Address: " << &varTwo << endl; // Printing the Address using derefrence operator</pre>
10
         cout << "The VarThree has a Address: " << &varThree << endl; // Printing the Address using derefrence operator
11
         return 0; //Returning an integer
12
13
```

Output

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_0/"2
The VarOne has a Address: 0x7fffc74e74fc
The VarTwo has a Address: 0x7fffc74e7500
The VarThree has a Address: 0x7fffc74e7504
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ []
```

COd e

```
€ 1.cpp > ...
    #include <iostream> // Including the INput output stream to use input output functions
    using namespace std; // Using std to use the cout without std::cout
 3
    5
 6
      int array[5] = {2, 4, 6, 8, 10}; // Integer Array of 5 elements
      int *aptr; // Integer Pointer to store the integer address
      aptr = array; // array is pointin to the array[0]
 8
      9
      10
      cout << "The Value of the aptr is: " << array[0] << endl; // Printing the 0 elemet addrees
11
      cout << "The Value of the aptr is: " << *aptr << endl; // Prining the value that aptr pointing
12
      return 0; //Returning the integer value
13
14
```

Output

```
namiirr@hoonnete:~/SEMESTERno2/00P(object oriented programmin
&& g++ 1.cpp -o 1 && "/home/namiirr/SEMESTERno2/00P(object or
The Address of the array is: 0x7ffd9b31b850
The Address of the aptr is: 0x7ffd9b31b850
The Value of the aptr is: 2
The Value of the aptr is: 2
namiirr@hoonnete:~/SEMESTERno2/00P(object oriented programmin)
```

Code No 3

```
#include <iostream> // Including the header file input output stream
     using namespace std; // Including the std to use cout only
 3
 4
     int main() // Main Function that will return an integer
 5
         int num = 10; // Declaring the variable with initial value 10
 6
         int *ptr; // An integer pointer that will hold the address of the integer
 7
         ptr = # // Storing the Address of the num in ptr
 9
         cout << "The Number is: " << num << endl; // Printing the actual value of the number</pre>
         cout << "The Address of the Number is (&num): " << &num << endl; //Printing the Address of the num using the derefernce operator</pre>
10
         cout << "The Address through pointer is : " << ptr << endl; // Printing the Address using pointer</pre>
11
         cout << "The Value Getting using pointer: " << *ptr << endl; //Printing the Value using Pointer</pre>
12
         return 0; // Returning the Integer from main Function
13
14
```

Output

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_08/" &&
The Number is: 10
The Address of the Number is (&num): 0x7ffc9cc7fc3c
The Address through pointer is: 0x7ffc9cc7fc3c
The Value Getting using pointer: 10
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ []
```

```
← 4.cpp > 分 main()

     #include <iostream> //Including the Header file input output stream
     using namespace std; // Picking the cout from std to use it
 4
     int main() //Main Function which will return the integer
 5
 6
         int *pc, c; // Declaring the pointer the integer
         c = 5; // Giving the c of value of 5
 8
         cout << "The Address of the Variable c in Ram: " << &c << endl; // Printing the Address of c</pre>
         cout << "The Value of c stored in Ram: " << c << endl << endl; // printing the value of the c
 9
10
          pc = \&c; // Giving the address to the pointer pc
11
         cout << "The Address of the pc holds in the memory is: " << pc << endl; // Printing the Address</pre>
12
          cout << "The value of the pc holds: " << *pc << endl << endl; //Printing the Value from Address</pre>
13
14
         c = 11; //Changing the Value of the c
15
          cout << "The Address of the c now: " << pc << endl; // Printing the Address Again</pre>
16
          cout << "The Value pc is holding in the ram is: " << *pc << endl << endl; // Printing the value from Address</pre>
17
18
          *pc = 45; //Changing the Value from Address
19
          cout << "The Address of the c in Ram(&c): " << &pc << endl; //Printing the Address</pre>
20
          cout << "The Value of the c Now: " << c << endl << endl << endl; //Printing the Value of d</pre>
21
          return 0;
22
23
```

```
namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08$ cd "/home/namiirr/SEMESTER
The Address of the Variable c in Ram: 0x7ffea2e8d71c
The Value of c stored in Ram: 5
The Address of the pc holds in the memory is: 0x7ffea2e8d71c
The value of the pc holds: 5
The Address of the c now: 0x7ffea2e8d71c
The Value pc is holding in the ram is: 11
The Address of the c in Ram(&c): 0x7ffea2e8d720
The Value of the c Now:
```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08\$

Code No 5

```
← 5.cpp > 分 main()

     #include <iostream> //Including the input output Stream header file
     using namespace std; // using namespace std to use the cout with out using std::cout
 4
     int main() //Our main function that will return an integer value
 5
 6
         int *ptr, x; // Making an integer pointer and int variable that can get int value
         x = 10; // Giving x a int value of 10
         ptr = &x; // Giving the Address of x to a pointer
 8
         cout << "The Value of the x: " << x << endl; //Printing the Value of x</pre>
 9
         cout << "The Value of the *ptr: " << *ptr << endl; //Printing the value of the pointer</pre>
10
         cout << "The Value of the ptr: " << ptr << endl; //printing the adddress that is obtained by x in Ram</pre>
11
         cout << "Value of the &x: " << &x << endl; //Printing address using dereference operator</pre>
12
13
         return 0; //Returning an Integer
14
```

namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08\$

Value of the &x: 0x7ffd971253cc

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/nami
The Value of the x: 10
The Value of the *ptr: 10
The Value of the ptr: 0x7ffd971253cc
```

COde No 6

```
int *ptr = NULL; //Intializing the Pointer with the NULL
cout << "The Value of the Pointer after initialize: " << ptr << endl; //Printing the Value of the ptr
return 0; //Returning the Integer Value</pre>
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ contact
The Value of the Pointer after initialize: 0
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$
```

```
← 7.cpp > 分 main()

    #include <iostream> // Including the Header file Input Output Stream
     using namespace std; // USing std to use cout without writing every time std::cout
    int main() //Main function that will return an Integer Value
        void *ptrOne, *ptrTwo, *ptrThree, *ptrFour; // Pointer of type void that can hold address of any data type
        int i; char c; float f; double d; // Making Variable of Different data type
        cout << "Enter the Integer Value: "; // Asking user to Enter an Integer Value</pre>
        cin >> i; // Storing Input in i
        cout << "Enter the Character Value: " ; // Asking user to Enter an Character</pre>
10
        cin >> c; //Storing that character in c
11
        cout << "Enter the Float Value: "; //Asking user to Enter the Float Value</pre>
12
13
        cin >> f; //Storing that float value in f
14
        cout << "Enter the Double Value: "; // Asking user to Enter the Double</pre>
        cin >> d; // Storing user input in d using Extraction operator
15
        ptrOne = &i; // Storing the Address in pointer
16
        ptrTwo = &c; // Storing the Address in pointer
17
        ptrThree = &f;  // Storing the Address in pointer
18
        ptrFour = &d;  // Storing the Address in pointer
19
20
        21
        cout << "The character has a Address: " << ptrTwo << endl;  //Printing the Address Using Pointer</pre>
22
        23
        cout << "The Double has a Address: " << ptrFour << endl;</pre>
                                                              //Printing the Address Using Pointer
24
25
        return 0; //Returning an Integer Value from Main Function
26
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08$ cd "/home/namii
Enter the Integer Value:
Enter the Character Value: c
Enter the Float Value: 4.5
Enter the Double Value: 4.56
The Integer has a Address: 0x7fffdcf8lef8
The character has a Address: 0x7fffdcf81ef7
The Float has a Address: 0x7fffdcf81efc
The Double has a Address: 0x7fffdcf81f00
namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08$
```

```
⊕ 8.cpp > 
♥ main()

 1 #include <iostream> //Including the Header file of input output stream
     using namespace std; // using std to use cout with writing every time std::cout
     int main() //Main Function that will return an Integer Value
 5
        int value = 7;  // variable of Data type int and has a value 7
         int *ptr = &value;  // Pointer holding the address of the value
         cout << ptr << "\n";  // Printing the address</pre>
         cout << ptr + 1 << "\n"; // Printing the address 1 next mean 4 byte next</pre>
10
         cout << ptr + 2 << "\n";  //Printing the Address 2 next 8 byte next</pre>
12
         cout << ptr + 3 << "\n"; //Printing the Address 3 next 12 byte
         return Θ; //Returning an Integer Value from the main function
13
```

```
namilirrenconnete:~/SEMESTERNOZ/OOP_tab/tab_0
0x7fff32a1fd4c
0x7fff32a1fd50
0x7fff32a1fd54
0x7fff32a1fd58
```

namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 0

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
← 10.cpp > ♠ main()

     #include <iostream> // Including the Header file input output stream
     using namespace std; // using std to use cout without writing the std::cout
     int main()  //Main function that will return an integer value
          int b[3]; // Array of Integer and that has 3 element
          int *a = b; // Storing the address of b[0] in pointer a
          cout << a << endl; // Printing the address of b[θ]</pre>
          a++; // Moving one next in Ram
          cout << a << endl; // Printing address after One Increment</pre>
10
11
          a--: // Subtracting 1
12
          cout << a << endl; // Again printing the address after one subtract</pre>
13
          a = a + 2; // Moving 8 bytes more from present address
          cout << a << endl; // Again printing the address</pre>
14
          return Θ; // Returning the Integer Value
15
16
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08\$ cd "/home/namiirr 0x7fffec90fa9c

0x7fffec90faa0

0x7fffec90fa9c

0x7fffec90faa4

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08\$

```
← 11.cpp > 分 fun(int, int)

     #include <iostream> //Including the Header file of input output stream
     using namespace std; //Using the std to use cout without std::cout
     void fun(int, int); // Fucntion that will return nothing and given two values and both are integers
 4
     int main() // Our Main Function that will return an Integer
 5
 6
         int A = 10, B = 20; // Two Varibles of Data Type int and Values os 10 and 20
         cout << "Values Before Giving to the Function" << endl; // Printing the message on console</pre>
 8
         cout << "A = " << A << endl; // Printing the Value of A on console</pre>
 9
         cout << "B = " << B << endl; // Printing the Value of B on console</pre>
10
         fun(A, B); // Giving the Function Two Parameter A and B
11
         cout << "Values After Giving to the Function" << endl; // Printing the message on console</pre>
12
         cout << "A = " << A << endl; // Printing the Value of A after function Call</pre>
13
         cout << "B = " << B << endl; // Printing the Value of A after function Call</pre>
14
15
16
17
     void fun(int X, int Y) // Fucntion that will return nothing and given two values and both are integers
18
         X = X + 1; // One Incremented in A
19
         Y = Y + 1; // One Incremented in A
20
21
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/
Values Before Giving to the Function
A = 10
B = 20
```

Values After Giving to the Function A = 10 B = 20

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08\$

```
#include <iostream> // Including the Header file of input output stream
     using namespace std; // using std to use cout with out using the std::cout
 3
 4
     void fun(int*, int*); // Function of Name fun and two input parameter and both are integer pointer
     int main() // Main function that will return an Integer Value
 5
 6
         int A = 10, B = 20; // Two Variables of Data type A and Value of 10 and 20
         cout << "Values Before Giving to the Function" << endl; // Printing only on console</pre>
 8
         cout << "A = " << A << endl; // Printing The value of A
 9
         cout << "B = " << B << endl; // Printing The value of B</pre>
10
         fun(&A, &B); // Giving the Addresses of A and B
11
12
         cout << "Values After Giving to the Function" << endl; // Printing only on console</pre>
13
         cout << "A = " << A << endl; // Printing the Value of After Function Call</pre>
         cout << "B = " << B << endl; // Printing the Value of After Function Call</pre>
14
15
16
     void fun(int *X, int *Y) // Function that will return nothing and Given the address of A and B
17
18
         *X = *X + 1; // One Increment in A
19
        *Y = *Y + 1;  // One Increment in B
20
21
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiirr/SE
08/"12
Values Before Giving to the Function
A = 10
B = 20
Values After Giving to the Function
A = 11
B = 21
```

namiirr@hoonnete:~/SEMESTERno2/oop lab/lab_08\$

```
← 13.cpp > 分 main()

                            // Including the Header file of Input Output Stream
     #include <iostream>
     using namespace std;
                           // Using std to use cout without std::cout
 3
     void Get Number(int *number) // Fucntion that will not return anything but given parameter an Address
 4
 5
         cout << "Enter Any Number: "; // Asking User to Enter the Number</pre>
         cin >> *number; // Storing the Value of user input in number varible using pointer
 8
 9
     void square(int *number) // Function that will not return anything and given that address as a parameter
11
         cout << "The Square of the Number using Pointer is = " << (*number) * (*number) << endl; // Printing the square using pointer</pre>
12
13
     int main() // Main Function that will return an Integer Value
14
15
         int number = 0; // INtialzing the Number With 0
16
         Get Number(&number); // Passing Value by pass by reference
17
         square(&number); // Passing Value by pass by reference
18
         return 0; // Returning the Integer Value from the Main Function
19
20
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiir
08/"13
Enter Any Number: 45
The Square of the Number using Pointer is = 2025
```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08\$

```
← 14.cpp > 分 main()

     #include <iostream> // Including the Header file of input output stream
     using namespace std; // Using the std to use cout not std::cout
     int * reference(int n)  // Function that will return an pointer and Given as a parameter an integer
 4
 5
         return &n; // Returning the address of n
 6
 8
     int main() //Main Function that will return an Integer Value
 9
         int A = 10; // Variable A of Data type int
10
         int *ptr; // Integer pointer that will hold the address of in
11
12
         cout << "The Address of the " << A << " in the main is = " << &A << endl; // Printing the address of A
         ptr = reference(A);  // Storing the returned address from function in pointer
13
         cout << "The Address of the " << A << " in reference is = " << ptr << endl; // Printing the address now</pre>
14
15
         return 0; // Returning an Integer Value
16
17
```

```
/tmp/NIJqGzk2ZU.o
```

```
The Address of the 10 in the main is = 0x7fff2cfd20fc
The Address of the 10 in reference is = 0
```

```
← 15.cpp > 分 Sum(int, int)

     #include <iostream> // Including the header file of input output stream
     using namespace std; // using std to use cout with out std::cout
     int Sum(int , int); // Function that will return an Integer and Given Two parameter of both integer
     int (*ptr)(int, int); // Function that hold the address
 6
     int main()  //Main Function that will return an Integer value
 8
         int a, b, rs; // Declaring Three variables of data type of int
 9
         cout << "\nEnter the First Number: "; // Enter First Number</pre>
10
         cin >> a; // Storing the value in a using the extraction operator
11
         cout << "Enter the Second Number: "; // Enter First Number</pre>
12
         cin >> b; // Storing the value in b using the extraction operator
13
         ptr = Sum; // storing the addrss of sum function in ptr
14
         rs = (*ptr)(a, b); // Calling the Function using pointer
15
         cout << "The SUm using pointer is = " << rs << endl; // Printing the returned value from function</pre>
16
         return 0; // rETURNING Integer value from function
17
18
19
     int Sum(int numOne, int numTwo) // Function that will return an Integer and Given Two parameter of both integer
20
21
22
         return numOne + numTwo; // return the sum of Two Number
23
```

```
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/na
08/"15
```

```
Enter the First Number: 5
Enter the Second Number: 5
The SUm using pointer is = 10
namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08$
```

```
G 16.cpp > ⑦ main()
1  #include <iostream> // Including the Header file for input output stream
2  using namespace std; // using std to use cout not std::cout
3
4  int main() // Main Fucntion that will return an Integer Value
5  {
6  int vals[] = {4, 7, 10}; // Array of integers
7  cout << vals << endl; // Printing the address of val[0]
8  cout << vals[0] << endl; // Printing the value of val[0]
9  return 0; // returning an Integer from main function
10 }</pre>
```

```
/tmp/GkoTc7GxSV.o
0x7ffcb6004a8c
/tmp/GkoTc7GxSV.o
0x7ffebd233b5c
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiirr/SM
08/"17
The First Element using pointer is = 2
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ []
```

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namiirr/SE
08/"18
The Address of the First Index = 0x7ffc38ead3a0
The Address of the First Index using pointer is = 0x7ffc38ead3a0
The First Index of the Array is = 2
The First Index of the Array using pointer is = 2
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$
```

```
← 19.cpp > 分 main().

     #include <iostream> // Including the header file input output stream
     using namespace std; // Using std to use cout not to use std::cout
     int main() //returning the integer value from the function
 5
      {
         int y[10]; // Array of 10 elements
         int *yPointer; // Declaring the Integer Pointer
 8
         yPointer = y; // Giving the address to pointer
 9
         cout << yPointer << endl; // Printing the address</pre>
10
         yPointer++; // 1 added in the address
11
12
         cout << yPointer + 1 << endl; // Agian printing the address with one increase</pre>
13
          return 0;
14
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

```
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd
08/"19
0x7ffe64087490
0x7ffe64087498
namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$
```

```
← 20.cpp > 分 main()

     #include <iostream> // Including the header file input output stream
     using namespace std; // using std to use cout not to use std::cout
     int main() // Main function that will return in integer value
 5
 6
         int array[5] = {2, 4, 6, 8, 10};  // Array of 5 elements of data type int
         int *arrayPointer; // Declaring the pointer
         arrayPointer = array; // Giving the Address to the pointer
 9
         cout << "The Address of the First Index of the Array is = " << &array[0] << endl;  // Printing the first Index address</pre>
10
         cout << "The Array Pointer is = " << arrayPointer << endl;  // Printing the address using the pointer</pre>
11
         cout << "The First Index = " << array[0] << endl;  // Printing the value of zero index</pre>
12
         cout << "The Array First Index through Pointer = " << *arrayPointer << endl;  // printing the value</pre>
13
         return 0; // Returning an Integer from our main function
14
15
```

```
namilrr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$ cd "/home/namilrr/SEMES
08/"20
The Address of the First Index of the Array is = 0x7ffff9a5bbl0
The Array Pointer is = 0x7ffff9a5bbl0
The First Index = 2
The Array First Index through Pointer = 2
namilrr@hoonnete:~/SEMESTERno2/oop_lab/lab_08$
```

```
#include <iostream> // Including the header file input output stream
     using namespace std; // using std to use cout not to use std::cout
     int main() // Main function that will return in integer value
         float array[5]; // Array of data type float of 5 elements
         float *ptr; // Pointer that store the address of float
         cout << "Displaying the Address of the Array using For Loop and Using the reference Operator(&)" << endl; // Message</pre>
         for (int i = 0; i < 5; i++) // For loop that will go up to 4
 10
             cout << "&a[" << i << "]" << " " << &array[i] << endl; // Printing the address of four elements</pre>
11
12
         ptr = array; // Giving the address to the pointer
 13
14
          cout << "Displaying the Address of the Array using For Loop and Using the Indirection Operator (&)" << endl; // Message</pre>
15
          for (int i = 0; i < 5; i++) // Printing the address of four elements
16
17
             cout << "*a[" << i << "]" << " " << ptr + i << endl; // Printing the address using the pointer</pre>
18
19
20
```

namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08\$

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL namiirr@hoonnete:~/SEMESTERno2/oop lab/lab 08\$ cd "/home/namiirr/SEMESTERno2/oop lab/lab 08/" && g++ 21 08/"21 Displaying the Address of the Array using For Loop and Using the reference Operator(&) &a[0] 0x7ffd0bb2cf40 &a[1] 0x7ffd0bb2cf44 &a[2] 0x7ffd0bb2cf48 &a[3] 0x7ffd0bb2cf4c &a[4] 0x7ffd0bb2cf50 Displaying the Address of the Array using For Loop and Using the Indirection Operator (&) *a[0] 0x7ffd0bb2cf40 *a[1] 0x7ffd0bb2cf44 *a[2] 0x7ffd0bb2cf48 *a[3] 0x7ffd0bb2cf4c *a[4] 0x7ffd0bb2cf50

```
← 22.cpp > 分 main()

     #include <iostream> // Including the header file input output stream
     using namespace std; // using std to use cout not to use std::cout
     int main()  // Main function that will return in integer value
 5
         int array[] = {78, 45, 56, 45, 87, 98, 12, 32}; // Initializing the array of int values
         int *ptr; // Integer pointer
         cout << "Values in the Array" << endl; // Message</pre>
         for (int i = 0; i < 8; i++) // For loop that will go up to 7 elements in array
10
             cout << *ptr << " "; // Printing the address of the values in the array
11
12
             ptr++; // Moving the pointer 1 next
13
         return 0; // Returning the Integer value from the main funxtion
14
```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08\$ cd "/home/namiirr/SEMESTERno2/oop_lab/lab_08/" && g++ 22.cpp -o 22 && "/h
08/"22
Values in the Array
29590344 1977432392 -998029078 1096637192 1096630620 -1017167522 254699110 33823 namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08/" && g++ 22.cpp -o 22 && "/h
08/"22

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

(1) There is an availa

```
G 23.cpp > 分 main()
     #include <iostream> // Including the header file input output stream
     using namespace std; // using std to use cout not to use std::cout
 4
     int main() // Main function that will return in integer value
 5
 6
         int numberOne = 10, numberTwo = 20, numberThree = 30; // three variables of int data type with values 10, 20, 30
         int *array[3];  // Array of the pointer array that will store address in it
         array[0] = &numberOne;  // At 0 index numberOne address
 8
         array[1] = &numberTwo; // At 1 index numberTwo address
 9
         array[2] = &numberThree; // At 2 index numberTwo address
10
         for (int i = 0; i < 3; i++) // For loop that will go up to 2
11
12
             cout << *array[i] << endl; // Printing the value that is stored in array index by index</pre>
13
14
         return 0; // Returning an Integer value form the main function
15
16
```

30

```
m11rr/SEMESTERno2/oop_lab/lab_08/" && g++ 23
10
20
```

namiirr@hoonnete:~/SEMESTERno2/oop_lab/lab_08

Code No 24

```
← 24.cpp > 分 main()

     #include <iostream> // Including the header file input output stream
     using namespace std; // using std to use cout not to use std::cout
     int main()  // Main function that will return in integer value
          char *a = "Hello"; // Giving the character to a
          cout << a << endl; // Printing the value of a</pre>
          cout << &a << endl; // Printing the address of a
          cout << *a << endl; // printing the pointing value of a
          cout << a[0] << endl; // Printing a[0] index</pre>
10
          cout << a++ << endl; // Incrementing 1</pre>
11
          cout << *a++ << endl; // incrementing 1 in pointer</pre>
12
          return 0; // Returning an integer value in main function
13
14
```

Output

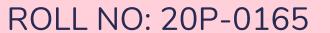
```
/tmp/ZNrsZslo8a.o
Hello
0x7ffeb0c5fdd0
H
```

Н

Hello

е





Name: Jawad Ahmed

Section: 2A







