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| **National University of Computer and Emerging Sciences, Lahore Campus** | | | | |
| final design | **Course:** | **OOP** | **Code:** | **CS217** |
| **Program:** | **BS (Computer Science)** | **Semester:** | **Spring 2020** |
| **Duration:** | **30 minutes** | **T. Marks:** | **15** |
| **Date:** | **Thursday 06-02-2020** | **Weight** | **3%** |
| **Section:** | **G** | **Page(s):** | **2** |
| **Exam:** | **Quiz # 1** | **Roll No:** |  |

**Notes:** No queries will be handled; plagiarism will be rewarded as ‘F’ grade.

**Question: For the code segment given below identify output or error. In case of error highlight the line that will cause the error.**

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| #include<iostream>  using namespace std;  void main()  {  char\* myString = "Happy Birthday";  char\* newString = new char[10];  int i = 0;  for (char\* temp = myString; \*temp != ' '; temp++)  {  newString[i] = \*temp;  i++;  }  cout << newString << endl;  } |  |
| #include<iostream>  using namespace std;  void main()  {  int\* ptr = 0;  int size = 5;  for(int count = 0 ; count<2 ; count++)  {  ptr = new int[size];  for (int i = 0; i < size; i++)  ptr[i] = i + 1;  int\* temp = ptr +2;  cout<<\*ptr<<","<<\*temp<<endl;  }  delete[] ptr;  } |  |
| void UpdateArray(int\* ptr , int value)  {  delete[] ptr;  ptr = new int[3];  for (int i = 0; i < 3; i++)  ptr[i] = value++;  }  void main()  {  int\*\* arr = new int\*[3];  for (int i = 0; i < 3; i++)  {  arr[i] = new int[i + 1];  //Assume all integers are initially zero  }  UpdateArray(arr[1], 10);  //Assume following function is displaying the elements of 2-D Array  DisplayArray();  for (int i = 0; i < 3; i++)  delete[] arr[i];  delete[] arr;  } |  |
| {  int \* iptr;  cout << sizeof(iptr) << " "  << sizeof((\*iptr)) << endl;  double \* dptr;  cout << sizeof(dptr) << " " <<sizeof((\*dptr)) << endl;  char \* cptr;  cout << sizeof(cptr) << " "  << sizeof((\*cptr)) << endl;  } |  |
| {  int num = 10; //adress of num = 0x100  int \*iptr = &num; //address of iptr = 0x500  int \*\* ptr = &iptr; //address of ptr = 0x900    cout << ptr << endl;  cout << \*ptr << endl;  cout << \*\*ptr << endl;  cout << &ptr << endl;  } |  |