Institutional Training

June-July, 2021

**Department of AIT-CSE**

**Daily Worksheet - Day-1**

**Classes and Objects**

**Que1:** Write a C++ program to declare class called CAR with suitable data member and member functions. Accept the details of at least 5 cars from users and display the details of each car using display\_car\_details() member function.

**Que2:** Predict the output of following C++ program

|  |
| --- |
| #include<iostream>  using namespace std;    class Empty {};    int main()  {    cout << sizeof(Empty);    return 0;  } |

**Que3:** Assume that an integer and a pointer each takes 4 bytes. Also, assume that there is no alignment in objects. Predict the output following program.

#include<iostream>

using namespace std;

class Test

{

    static int x;

    int \*ptr;

    int y;

};

 int main()

{

    Test t;

    cout << sizeof(t) << " ";

    cout << sizeof(Test \*);

}

**Que4:** Create a class named 'Student' with a string variable 'name' and an integer variable 'roll\_no'. Assign the value of roll\_no as '2' and that of name as "John" by creating an object of the class Student.

**Que5:** Create classes that capture bank customers and bank accounts. A customer has a first and last name. An account has a customer and a balance. Make objects for two accounts held by the same customer.