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Subject: OOP with C++ lab sheet: 2

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1>

```
#include<iostream>
using namespace std;
struct date {
  int year, month, yday;
  };

  Void Printdate (data & d)
  {
    Cout << d.month << "/" << d.day << "/" << d.year << endl;
  }

int main() {

  Date mydate;
  mydate.month = 11;
  mydate.year = 2024;
  mydate.day = 28;

  Printdate (mydate);
  return 0;
  }
```

```
#include <iostream>
using namespace std;
float Convert (float&foot, float&inches)
  {
     return foot* inches ;
  }
float Convert (float &foot, float inches=12.0)
  {
     return foot * inches;
  }
float convert( float foot = 10.0, inches=12.0)
    {
       return foot * inches;
    }
int main ( )
{
  float inches, foot;
 cout<< "Enter foot "<< endl;
 Cin >> foot;
 cout << "Enter inches"<< endl;
 Cin>>inches;
float convertedValue = convert(foot); inches
 cout << convertedValue<< endl;
  return 0;
  }
```

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3)
```
#include <iostream>
using namespace std;
namespace square
{
    int num;
    int fun (int x) {
     return x*x;
     }
}
namespace cube
{
    int num;
    int fun (int x) {
     return x*x*x;
     }
}
using namespace square;
int main ()
{
    num = 3;
    cube::num=4;
    cout<< " cube of square::num " << cube::fun(num) << endl;
    cout<< " Square of cube:: num " << fun (cube::num) <<endl;
    return 0;
}
```

4)

```
#include <iostream>
int& temp (int t1, int t2)
{
    if (t1 > t2)
      return t1;
    else
    return t2;
}
using namespace std;
int main ()
{
   int t1, t2;
cout << "Enter first temperature" << endl;
cin >> t1;
cout << "Enter second temperature" << endl;
cin >> t2;
int& larger = temp (t1, t2);
cout << " The larger temperature is " << larger;
return 0;
}
```

5)

```
#include<iostream>
using namespace std;
inline double PayableSalary (float salary, float tax = 10.0)
{
    float Payment;
    payment = salary - salary * tax / 100;
    return payment;
}
int main()
{
    float salary;
    cout<< "Enter the salary "<<endl;
    cin>>salary;
    cout << "The salary Net by the company " << PayableSalary(salary)
                                              << endl;
    return 0;
}
```

6)

```
#include <iostream>
using namespace std;
double ceo (float p = 35000, int i)
    { return p*i/100;
    }
double jo ( float p = 25000, int i)
    { return p*i/100; }
```

```
double sa( float P = 24000, int i)
{
   return P* i/100;
}
double programmer (float P = 18000, int i)
   {
      return P* i/100;
   }
   int main()
{
   int c=9, i= 10, s= 12, P=12;
   cout<<"salary in 2010 are "<<endl;
   cout<<"CEO = "<<ceo(c)<<endl;
   cout<<" Information officer ="<<io(i)<<endl;
   cout<<" system analyst = "<<si(s)<<endl;
   cout<<"Programmer = "<<programmer(P)<<endl;
   return 0;
   }
```