Assignment - 2

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1) student class

```
# include < iostream >
using namespace std;
class student {
    string name;
    int age;
Public:
    student() {
    name = "Unknown";
    age = 0;
    }
    void display() {
    cout << "Name:" << name << ", Age:"
    }
};
int main() {
    student s;
    s.display();
    return 0;
}
```

2) Rectangle (constructor + Area)

```
# include std;
Using namespace std;
class Rectangle {
    int length, breadth;
```

Public

```
Rectangle (int l, int b) {
    length = l;
    Breadth = b;
}

int area () {
  Return length * Breadth;
```

5)

```
class Box {
    int l, w, h;
Public :
  Box() { l = w = h = 1; }
  Box (int side ) { l = w = h = side ; }
  Box (int length ; w = width ;  h = height )
}
void volume () {
      Cout << " Volume of Box : " << l * w
  }
};
```

```
class Book {
    string Title;
    float price;
public:
    Book(string t, float p){
        Title = b.title;
        price = b.price;
    }
    void display (){
        cout << "Book: " << title << ", price.
    }
};
```

5)
```
class Bank Account {
    int account number;
    double balance;
public:
    Bank Account(int accNo =0, double bal=
        account number = accNo;
        balance = bal;
    }
    void display () {
        cout << "Account No: " << account nu
```

```
<< "
    , Balance: " << balance << endl;
  }
};
```

6)
```
class Calculator {
    int a, b;
Public:
    Calculator (int x, int y) {
        a = x; b = y;
    }
    Void add () {
        Cout << " sum: " << a+b << endl;
    }
};
```

7) Circular Class
```
class Circle {
    float radius;
Public:
    Circle (float r) { radius = r; }
    void area() {
    Cout << " Area of Circle : " << 3.14159
};
```

8)

```
Class car{
    string Brand;
    float Price;
Public:
    Car(string b, float p) {
    Brand = b; price = p;
}
void display(){
    Cout << "Car Brand: " << Brand << c';
                    Price: " << price << endl;
}
};
int main() {
    Car c1("Toyota", 500000);
    c1. display();
    return 0;
}
```

9)

```
# include < iostream >
using namespace std;
Class employee{
    string name;
    float salary;
```

Public:

```
Employee (string n, float s) {
    name = n;  salary = s;
}
void display() {
    cout << "employee: " << name <<
        "salary: " << salary << endl;
}
};
int main () {
    Employee e1("John", 45000);
    e1.display();
    return 0;
}
```

10)

```
#include <iostream>
using namespace std;
class Student {
    int roll no;
    float Marks;
public:
    Student (int r, float m) {
```

```
    rollNo = r; marks = m;
  }
  void display(){
    cout << "Roll: " << rollNo << "
    marks: " << marks << endl;
  }
};
int main(){
  Student s[3] = { Student(1,85),
  Student(2,90), Student(3,75) };
  for(int i = 0; i < 3; i++){
    s[i].display();
  }
  return 0;
}
```