

02 #include <iostream>
#include <string>
using namespace std;

class Student
{

private:

String name, rollnumber;
int marks;

public:

void getDetails();

void setDetails();

};

void Student::setDetails()

{

cout << "Enter the name : " << endl;
cin >> name;

cout << "Enter roll number : " << endl;
cin >> rollnumber;

cout << "Enter total marks : " << endl;
cin >> marks;

}

void Student::getDetails()

{

cout << "Name : " << name << ", Roll number : " << rollnumber << ", marks : " << marks << endl;

}

int main (int argc, char const *argv[])

{

int count;

cout << "Enter the count of students : " << endl;
cin >> count;


```

if (count > 0)
{
    Student StudentArray[count];
    for (int i = 0; i < count; i++)
    {
        cout << "For Student " << i + 1 << endl;
        StudentArray[i].setDetails();
    }
    cout << "In You have entered: " << endl;
    for (int i = 0; i < count; i++)
    {
        StudentArray[i].getDetails();
    }
}
else
{
    cout << "Please enter a valid number" << endl;
}
return 0;
}

```

```

Q1 #include <iostream>
using namespace std;
class Student
{
private:
    string USN, Name;
    int count;
public:
    void print();
}

```


void Student::^{read} print();

{

cout << "Enter VSN" << endl;
cin >> VSN

cout << "Enter Name" << endl;
cin >> Name;

}

void Student:: print()

{

cout << "VSN:" << VSN << "Name:" << Name;

}

int main(^{int} argc, (char const* argv[]))

{

int count~~1000~~, cnt;

if (count > 0)

{

Student StudentArray[count];

for (int i=0; i<count; i++)

{

cout << "For Student" << i+1 << " : " << endl;

StudentArray[i].read();
cnt++;

}

for (int i=0; i<count; i++)

{

cout << "entered detail are" << endl;

StudentArray[i].print();

cnt++;

}

cout << "cnt" << cnt;


```

}
else
{
    cout << "enter valid number" << endl;
}
}

```

Q 3 #include <iostream>

#include <string>

using namespace std;

class Student

```

{
    private:
        string Name, USN, phone;
    public:
        read();
        print();
}

```

};

void Student::read();

```

{
    cout << "enter name" << endl;

```

cin >> name;

```

    cout << "enter USN" << endl;

```

cin >> USN;

```

    cout << "phone number" << endl;

```

cin >> phone;

```

}
void Student::print();

```

```

{

```

```

    cout << "Name: " << Name << "USN" << USN <<
        "phone" << phone;

```

```

}

```



```

int main (int argc, char const *argv[])
{
    int count;
    cout << "Enter No of Student count ";
    cin >> count;
    if (count > 0)
    {
        for (count = 0; count <= 10; count++)
        {
            Student StudentArray[count]
            for (int i = 0; i < count; i++)
            {
                cout << "Enter details: " << endl;
                cout <<
                StudentArray[i].read();
            }
            for (int i = 0; i < count; i++)
            {
                cout << "Details are: " << endl;
                StudentArray[i].print();
            }
        }
    }
    else
    {
        cout << "Enter valid number";
    }
}

```

Q4

```

import java.util.Scanner;
import java.io.*;
class divisible
{
    public static void main (String[]
                        args)

```



```

int a;
Scanner sc = new Scanner(System.in);
System.out.print("Enter the no  

String str..
int a = sc.nextInt();
a = sc.nextInt();
if ((a > 4000) && (a < 8000))
{
    if (a % 17 == 0)
        System.out.println(a + " is divisible  

        by 17");
    }
else
{
    System.out.println(a + " is not divisible  

    by 17");
}
}
else
{
    System.out.println("Enter no > 4000 & < 8000");
}
}

```

```

Q5 #include <iostream>
#include <string>
class Circle
{
    int radius;
    void read(int radius)
    {

```



```

Case 3: c1 < read();
        c1 < print();
        break;
    }
}

```

```

Q 5 #include <iostream>
#include <string>
using namespace std;
class Circle
{
public:
    float radius;
    void area (float radius)
    {
        float a;
        a = 3.14 * radius * radius;
        cout << "area of circle is" << a;
    }
}

```

```

}
class Rectangle
{
public:
    float length, breadth;
    void area (float length, float breadth)
    {
        float a;
        a = length * breadth;
        cout << "area of Rectangle is" << a;
    }
}

```


}

}

class triangle

{

public:

float base, height;

void area(float base, float height)

{

float a;

$a = 0.5 * \text{base} * \text{height};$

cout << "area of triangle is " << a;

}

}

int main (int argc, char const *

{

int ch;

float length, breadth, radius,
base, height;

rectangle r1;

triangle t1;

circle c1;

cout << "enter your choice" << endl << "

1. rectangle" << endl << "2. triangle" << endl << "3. circle" << endl;

cin >> ch;

switch (ch)

{

case 1: (cout << "enter length";

cin >> length;

cout << "enter breadth";

cin >> breadth;

r1.area (length, breadth);

break;

Case 2: cout << "Enter base";
cin >> base;

cout << "Enter height";
cin >> height;
t1.area (base, height);
break;

Case 3: cout << "Enter radius";
cin >> radius;
t1.area (radius);
break;

}

}