**VARUN KUMAR**

**2K19-IT-140**

**OOP LAB – 5**

**Q1. Define a constructor for the class student with certain fields and**

**invoke the constructor in main()**

**#include <iostream>**

**using namespace std;**

**class student{**

**string name;**

**int roll\_no;**

**float marks;**

**student(){**

**cout<<" default private constructor called"<<endl<<endl;**

**}**

**public:**

**int get\_roll\_no(){**

**return roll\_no;**

**}**

**float get\_marks(){**

**return marks;**

**}**

**string get\_name(){**

**return name;**

**}**

**student(string n){**

**cout<<"parameterized with one parameter called "<<endl<<endl;**

**name=n;**

**roll\_no=0; marks=0;**

**}**

**student(int r){**

**cout<<"parameterized with one parameter called "<<endl<<endl;**

**roll\_no=r;**

**}**

**student(float m){**

**cout<<"parameterized with one parameter called"<<endl<<endl;**

**marks=m;**

**}**

**student(string n, int r , float m){**

**cout<<"parameterized with three parameters called"<<endl<<endl;**

**student s;**

**name=n;**

**roll\_no=r;**

**marks=m;**

**}**

**student(const student &s){**

**cout<<"copy constructor called "<<endl<<endl;**

**name=s.name;**

**roll\_no=s.roll\_no;**

**marks=s.marks;**

**}**

**~student(){**

**cout<<" DESTRUCTOR called and object destroyed"<<endl<<endl;**

**}**

**};**

**int main(){**

**student s1("varun" , 140 , 94 );**

**student s2("vansh");**

**student s3(s1) ;**

**student s4("rahul" , 125 , 74);**

**cout<<s3.get\_name()<<" "<<s3.get\_roll\_no()<<" "<<s3.get\_marks()<<endl<<endl;**

**return 0;**

**}**

