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Roll No: 20P-0147

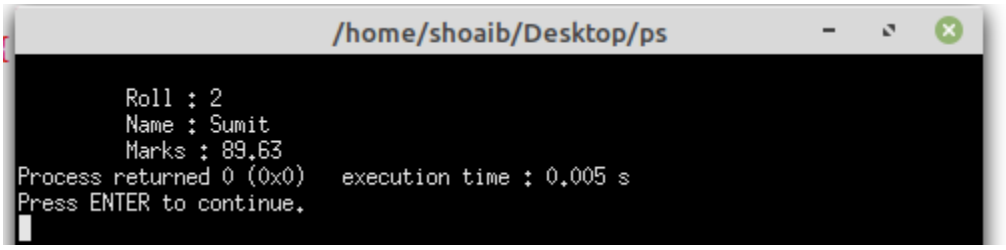
Section: B

1)

```
#include<iostream>
#include<string.h>
using namespace std;
class student{
   int roll;
   char name[20];
   float marks;
   public:
      student(int r, char nm[],float m){
         roll=r;
         strcpy(name,nm);
         marks=m;

      }

   void display(){
      cout<<"\n\t Roll : "<<roll;
      cout<<"\n\t Name : "<<name;
      cout<<"\n\t Marks : "<<marks;
   }
```

```
};


int main(){
   student s(2,"Sumit",89.63);
   s.display();
   return 0 ;
}
```

Output

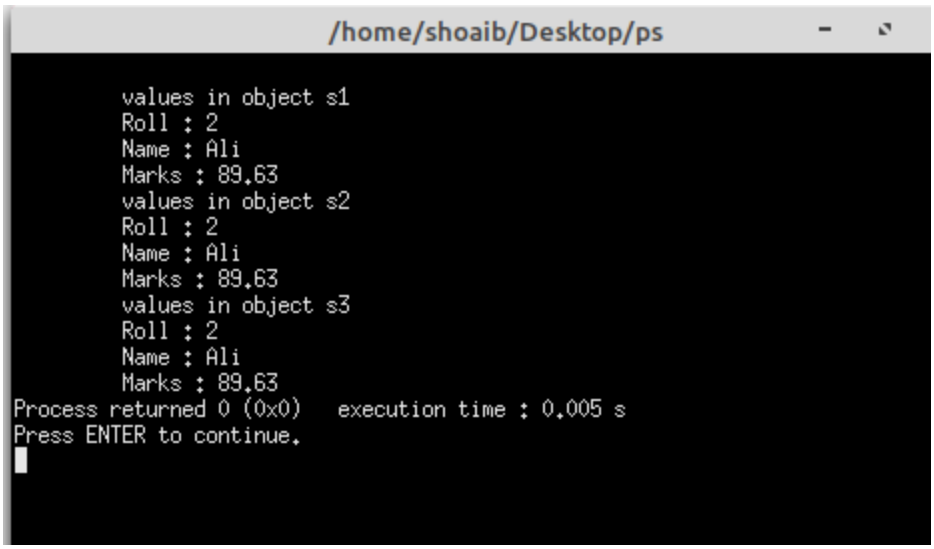


2)

```
#include<iostream>
#include<string.h>
using namespace std;
class student{
   int roll;
   string name;
   float marks;
   public:
      student(int r, string nm,float m){
         roll=r;
         name=nm;
         marks=m;

      }
```

```
    void display(){
        cout<<"\n\t Roll : "<<roll;
        cout<<"\n\t Name : "<<name;
        cout<<"\n\t Marks : "<<marks;
    }


};

int main(){
    student s1(2,"Ali",89.63);
    student s2(s1);
    student s3=s1;
    cout<<"\n\t values in object s1";
    s1.display();
    cout<<"\n\t values in object s2";
    s2.display();
    cout<<"\n\t values in object s3";
    s3.display();
    return 0 ;
}
```

Output

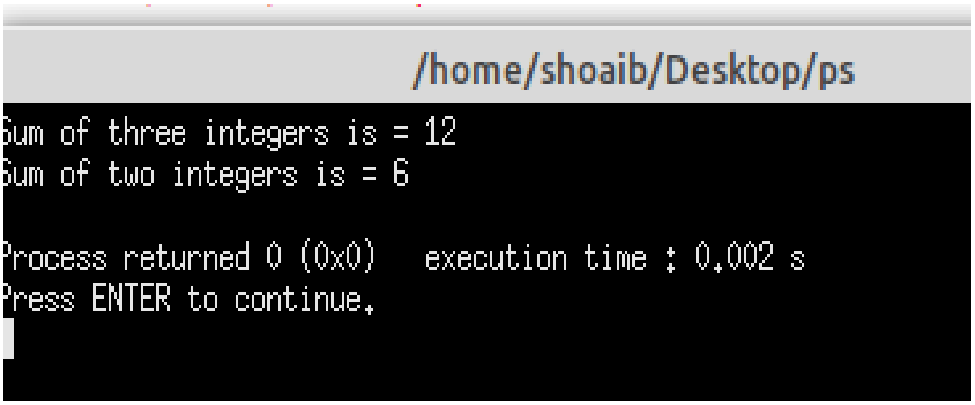


3)

```
#include<iostream>
#include<string.h>
using namespace std;
class Sum {
   public:
      Sum(int l, int m, int n){
         cout<<"Sum of three integers is = "<<(l+m+n)<<endl;
      }
   Sum(int l ,int m){
      cout<<"Sum of two integers is = "<<(l+m)<<endl;
   }
};

int main(){
   Sum s1=Sum(3,4,5);
   Sum s2= Sum(2,4);
   return 0;
```

```
}
```

Output

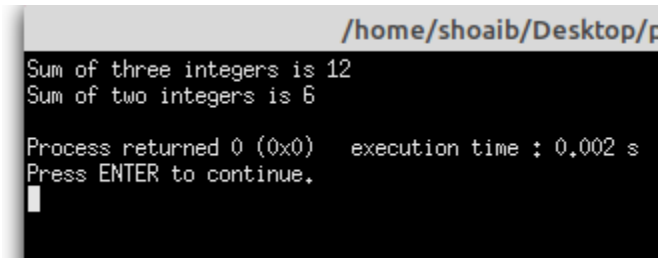


4)

```
#include<iostream>
#include<string.h>
using namespace std;
class Sum {
   public:
      Sum(int l, int m, int n);
      Sum(int l ,int m);

};

int main(){
   Sum s1=Sum(3,4,5);
   Sum s2=Sum(2,4);
   return 0;
}

Sum::Sum(int l, int m, int n){
```

```
    cout<<"Sum of three integers is "<<(l+m+n)<<endl;
}
Sum::Sum(int l,int m){
    cout<<"Sum of two integers is "<<(l+m)<<endl;
}
```

Output

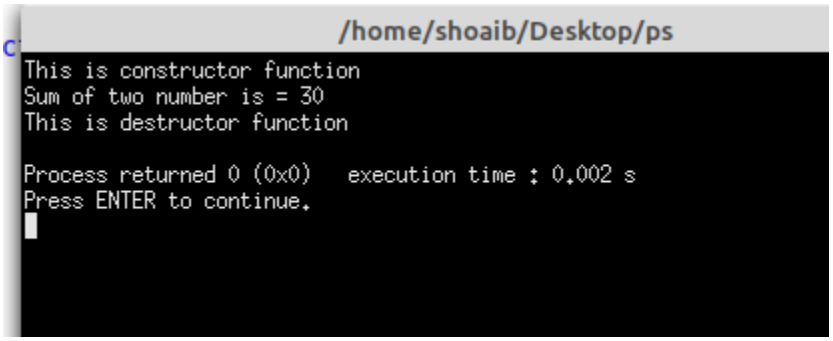


5)

```
#include<iostream>
using namespace std;
class Prog{
    public:
        Prog(){
            cout<<"This is constructor function "<<endl;
        }
        ~Prog(){
            cout<<"This is destructor function "<<endl;
        }
};

int main(){
    Prog x;
    int a,b;
    a=10;
    b=20;
```

```
    cout<<"Sum of two number is = "<<(a+b)<<endl;
}
```

Output

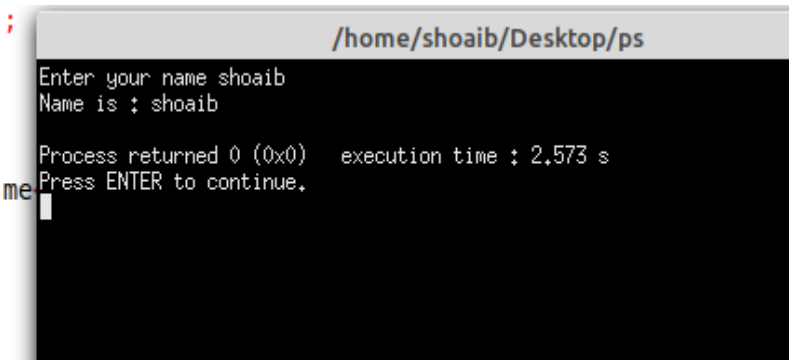


6)

```
#include<iostream>
using namespace std;
class test{
   private:
      char name[20];
      public:
         void get(){
            cout<<"Enter your name ";
            cin.get(name,20);

         }
         void print (test s){
            cout<<"Name is : "<<s.name<<endl;
         }
};

int main(){
```

```
    test test1,test2;
    test1.get();
    test2.print(test1);
    return 0;
}
```

Output

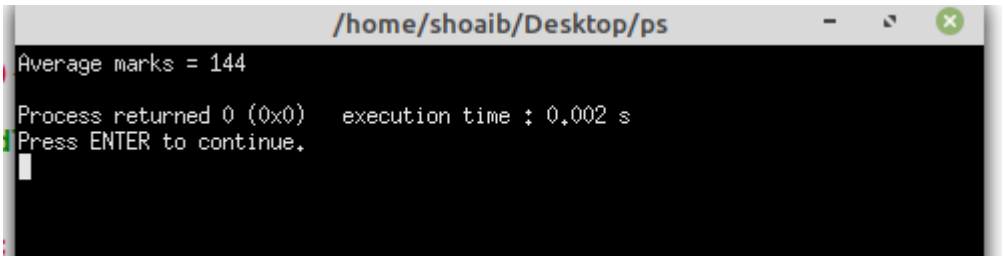


7)

```
#include<iostream>
using namespace std;
class student {
   public:
      double marks;
      student(double m){
         marks = m;
      }
};
void calculate_avg(student s1, student s2){
   double average =(s1.marks+s2.marks);
   cout<<"Average marks = "<<average<<endl;
}
int main(){
   student student1(88.0),student2(56.0);
   calculate_avg(student1,student2);
   return 0;
```

}

Output


/home/shoaib/Desktop/ps
Average marks = 144
Process returned 0 (0x0)   execution time : 0.002 s
Press ENTER to continue.