(28-09-2022) C++ PROGRAMS

K.UDAYKUMAR (192110467

PROGRAM – 1:

C ++ Program to print the student details using constructor.

```
#include<iostream>
#include<string.h>
using namespacestd;
classstudent
        private:
                 intno;
                 charname[20];
        public:
                 student()
                         cout << "Enter the value of name = ";
                         cin>>name;
                         cout<<"Enter the reg no = ";</pre>
                         cin>>no;
                 voiddisplay()
                         cout<<"\n\n";
                         cout<<"STUDENT DETAIL";</pre>
                         cout<<"\n\n";
                         cout<<"Student name is "<<name;</pre>
                         cout<<"\nRegis number = "<<no;
};
intmain()
        students;
        s.display();
        return 0;
OUTPUT:
```

PROGRAM - 2:

C++ Program to print the name of the student by creating class, number and name is pass while creating a object, the name should be unknown otherwise the name should be equal to the string value while creating the object of the student class.

```
#include<iostream>
using namespacestd;
classstudent
        intno;
        char*name;
        public:
                student();
                student(int,char*);
                voiddisp();
student::student()
student::student(int x,char* y)
        no=x;
        name=y;
void student::disp()
        cout<<"NO = "<<no;
        cout<<"\nName = "<<name;
intmain()
        students(467,"udaykumar");
```

```
s.disp();

OUTPUT:

C:\Users\Lenovo\Desktop\Tungamentals of computing\njkgbkgee.exe

NO = 467

Name = udaykumar

Process exited after 0.04367 seconds with return value 0

Press any key to continue . . . _
```

PROGRAM - 3:

Create a class name Rectangle with two data member length and breadth and the function to calculate Area o rectangle this contain three having no parameter, having two parameter, and another function contains one parameters.

```
intmain()
{
          rectangle r(7,7);
          r.cal();
          return 0;
}
OUTPUT:
Area of the Given value: 49
```

PROGRAM - 4:

Write a C++ program to create a class add amount data members amount initial value of 50,two constructor without parameter i.e, no amount and the second function contains parameter amount will be added in your account . create an object and display the final amount.

```
#include<iostream>
using namespacestd;
classaddamount
        public:
        inta,b,c;
        addamount()
        addamount(int x)
                b=x;
        voiddisplay()
                a=700;
                c=a+b;
                cout<<"TheTotal amount = "<<c;</pre>
};
intmain()
        addamount b(800);
        b.display();
OUTPUT:
```

```
The Total amount = 1500
------
Process exited after 0.0411 seconds with return value 0
Press any key to continue . . .
```

PROGRAM -5:

Create a class print number to print various no of different data types like creating different functions with same name printn having a parameters for each data types.

```
#include<iostream>
using namespacestd;
classprintnumber
        inta;
       floatb;
        charc;
        doubled;
        longe;
        boolf;
        public:
                voidprintn(int x)
                        a=x;
                voidprintn(floaty)
                        b=y;
                voidprintn(charz)
                        c=z;
                voidprintn(doublep)
                        d=p;
                voidprintn(long q)
                        e=q;
```

OUTPUT:

```
Integer = 70
Character = K
-----
Process exited after 0.1352 seconds with return value 0
Press any key to continue . . .
```

PROGRAM – 6:

Create a class to print an integer and character using two function having same name by different sequence of integer and character.

```
#include<iostream>
using namespace std;
class operate
{
    int a;
    char b;
    public:
        void print(int x, chary)
        {
            a=x;
            b=y;
    }
        void print(charz,int w)
        {
            a=w;
        }
```

```
b=z;
              voiddisplay()
                      cout<<"number = "<<a;</pre>
                      cout<<"\nname = "<<b;
              void display1()
                      cout<<"\nname = "<<b;
                      cout<<"\nnumber="<<a;
};
intmain()
       operateo;
       o.print(1,'X');
       operate o1;
       o1.print('X',1);
       o.display();
       o1.display1();
OUTPUT:
number = 7
name = U
name = U
number = 7
Process exited after 0.03163 seconds with return value 0
Press any key to continue . . .
```