MAHARISHI DAYANAND UNIVERSITY



Delhi Global Institute of Technology

OOPL Using C++

Subject Code: LC-CSE-214G

Name : Bazgha Razi

Registration Number: 191380214

Roll Number:

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Aim: WAP in C++ demonstrating concept of structure.

CODE

```
mame isSaurav
age is19
```

Aim: WAP in C++ Demonstrating the concept of class defining inside member functions.

CODE

```
≡ File Edit Search Run Compile Debug Project Options

                                                                Window Help
-[•]
                                EG2_BTEC.CPP
                                                                       2=[$]=
#include<comio.h>
#include<iostream.h>
                                                         П
#include<stdio.h>
class student
char name[20];
int age:
public:
void imput(void)
cout<<"enter name";
cin>>name;
cout<<"\n Enter age";
cin>>age;
void display(void)
cout<<"name is"<<name<<endl<<"age"<<age;
};
    — 1:1 ——(I
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
enter namepulkit
Enter age19
name ispulkit
age19
```

Aim: WAP in C++ Demonstrating the concept of class defining outside member functions.

```
File Edit Search Run Compile Debug Project
                                                        Options
                                                                    Window
                                 = EG7 BTEC.CPP =
-[•]<del>-</del>
tinclude<comio.h>
#include<iostream.h>
#include<stdio.h>
class student
char name[20];
int age:
public:
void input(void);
void display(void);
void main(void)
student s1;
clrscr();
s1.input();
s1.display();
getch();
void student∷input(void)
      — 1:19 ——<mark>(1</mark>
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make
```

```
File Edit Search Run Compile Debug Project Options Window Help

EG7_BTEC.CPP

EG7_BTEC.CPP

[1]

{
    cout<<"enter name";
    cin>>name;
    cout<<"xn Enter age";
    cin>>age;
}

void student::display(void)
{
    cout<<"name is"<<name<<endl<<"age"<cage;
}

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
enter age20
name isharsh
age20_
```

Program 4

Aim: WAP demonstrating concept of scope resolution operator.

```
File Edit Search Run Compile Debug Project Options Window Help

EGO_BTEC.C

EGS_BTEC.CPP

#include<iostream.h>
#include<stdio.h>
#include<stdio.h>
#int m=50;

void main(void)
{

clrscr();
int m=70;
cout<<"inner m is"<<m<<"ylohal m is"<<::m;
getch();
}

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
inner m is70global m is50
```

Program 5

Aim: WAP in C++ demonstrating polymorphism/to calculate area of circle as well as area of rectangle.

```
File Edit Search Run Compile Debug
                                                                    Window
                                                                            Help
                                               Pro ject
                                                        Uptions
                                  POLYMOR.CPP
 include<stdio.h>
#include<conio.h>
 #include<math.h>
                                                                П
void area(int x)
printf("the area of circle is xf",3.14*pow(x,2));
void area(int l,int b)
printf("\n the area of rectangle is xd",l*b);
int main()
int x,r,l,b;
clrscr();
printf("enter choice");
scanf("xd",&x);
switch(x)
case 1:
        1:21 =
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
Window Help
    File Edit Search Kun Compile Debug Project Uptions
 ·[•]
                                   = POLYMOR.CPP =
                                                                                4=[‡]:
printf("enter choice");
scanf("zd",&x);
                                                                   П
switch(x)
case 1:
       printf("enter radius");
scanf("xd",&r);
       area(r);
       break;
case 2:
      printf("enter length and breadth");
scanf("xdxd",&1,&b);
      area(1,b);
      break;
default:
      printf("to caluculate area next time....Thank u");
     getch();
     return(0);
     — 37:1 ——
F1 Help Alt-F8 Next Msq Alt-F7 Prev Msq Alt-F9 Compile F9 Make F10 Menu
```

```
enter choice1
enter radius5
the area of circle is 78.500000_
```

Aim: WAP in C++ demonstrating the concept of static member data.

```
≡ File Edit Search Run Compile Debug Project Options
                                                                  Window Help
                                = STATICEG.CPP =
                                                                         =1=[#]=
#include<iostream.h>
#include<conio.h>
class ×1
static int i;
int code:
public:
void count()
code=++i;
void display()
cout<<code;
int x1::i;
void main()
clrscr();
x1 a,b,c,d;
     - 1:1 =
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
≡ File Edit Search Run Compile Debug Project Options
                                                                  Window Help
                                                                         =1=[‡]=
 -[ | ]-
                                = STATICEG.CPP =
a.count();
b.count();
c.count();
d.count();
a.display();
b.display();
c.display();
d.display();
getch();
            П
 ★── 22:1 ──<mark>─</mark>
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```



Program 7

Aim: WAP in C++ demonstrating the use of static member functions.

```
File Edit Search Run Compile Debug Project Options
                                                                Window Help
                               STATICEF.CPP
 include<iostream.h>
include<comio.h>
class ×1
static int i:
int code:
public:
void count()
code=++i;
void display()
cout<<code;
static void dis(void)
cout<<"the value of static variable is"<<i:
int x1::i;
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
File Edit Search Run Compile Debug Project Options Window Help

STATICEF.CPP

Told Main()
{
clrscr();
x1 a,b,c,d;
a.count();
b.count();
d.count();
a.display();
b.display();
c.display();
c.display();
x1::dis();
getch();
}

F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
1234the value of static variable is4
```

Aim: WAP demonstrating the concept of Default Constructor.

```
File Edit Search Run Compile Debug Project
                                                     Options
                                                                 Window
                                                                        Help
                                = DEFAULT.CPP =
 -[1]-
#include<comio.h>
#include<iostream.h>
#include<stdio.h>
#include<string.h>
class student
char name[20];
                                               П
int age:
public:
student();
void main(void)
student s1;
clrscr();
s1.display();
getch();
 student::student()
      — 1:21 ——💶
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
                                                                 Window

■ File Edit Search Run Compile Debug Project Options

                                                                        Help
 -[•]-
                                 DEFAULT.CPP
 strcpy(name,"ABHI");
 age=20;
void student∷display(void)
cout<<"name is"<<name<<endl<<"age"<<age;
    — 21:3 ——<mark>(1</mark>
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
name isABHI
age20_
```

Program 9

Aim: WAP in C++ demonstrating the concept of parameterized constructors.

```
■ File Edit Search Run Compile Debug Project Options
                                                                      Window Help
                                  STATICEF.CPP
 -[•]
                                   PARAMETE.CPP =
                                                                             <del>-</del>3=[†]=
 tinclude<comio.h>
 #include<iostream.h>
#include<stdio.h>
#include<string.h>
class student
 char name[20];
 int age:
 public:
  student(char *,int);
  void display(void);
 void main(void)
 student s1("rajesh",19);
 student s2=student("Ayush",20);
 clrscr();
s1.display();
 s2.display();
 getch();
        - 1:1 ----
F1 Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

```
File Edit Search Run Compile Debug Project Options Window Help

STATICEF.CPP
PARAMETE.CPP

3=[t]

student::student(char *p,int a) {
    strcpy(name,p);
    age=a;
    }
    void student::display(void) {
    cout<<"name is"<<name<<endl<<"age"<<age;
}

File Edit Search Run Compile Debug Project Options Window Help

STATICEF.CPP

3=[t]

4

Strcpy(name,p);
    age=a;
    }

File Edit Search Run Compile Debug Project Options Window Help

STATICEF.CPP

3=[t]

File Edit Search Run Compile Follow

STATICEF.CPP

3=[t]

File Edit Search Run Compile Follow

STATICEF.CPP

3=[t]

STATICEF.CPP

3=[t]

File Edit Search Run Compile Follow

STATICEF.CPP

3=[t]

File Edit Search Run Compile Follow

STATICEF.CPP

3=[t]

File Edit Search Run Compile Follow

STATICEF.CPP

3=[t]

STATICEF.CPP

3=[t]

File Edit Search Run Compile Follow

STATICEF.CPP

3=[t]

STATICEF.CPP

STATICEF.CPP

3=[t]

STATICEF.CPP

STATICEF
```

```
name israjesh
age19name isAyush
age20_
```