OUTPUT BASED QUESTIONS -1

| 1. | ```cpp
#include <iostream> using
namespace std;
 class course {     int x, y; public:
void course1(int xx, int yy) {     x
= ++xx;     y = ++yy;
}   void Display()
{     cout<<x+y<<"
";
}
};   int main() {
course obj;
obj.course1(20,30);
obj.Display();
return 0;
}
``` | 52 |
| 2. | | 10 |

```cpp
#include <iostream> using
namespace std;
 namespace first
{      int x = 5;
int y = 10;
}  namespace second {
double x = 3.1416;
double y = 2.7183;
}
int main() {    using
first::x;    using
second::y;    bool a,b;    a
= x > y;    b = first::y <
second::x;    cout<<a<<b;
   return
0;
}
```

| 3. | ```cpp
#include <iostream> using
namespace std;
``` | 52 |

| | ```cpp
 int f(int p, int q)
{      if(p > q)
return p;      else
        return q;
}  int main() {
int a=5, b=10;
int k;      bool
x=true;      bool
y=f(a,b);      k =
((a*b)+(x+y));
cout<<k;
}
``` | |
| 4. | | 1010 |

```cpp
#include <iostream>
using namespace std;
 int main() {     int i,j;
j = 10;    i = (j++, j
+100, 999+j);      cout<<i;
return 0;
}
```

| 5. | ```cpp
#include <iostream>
using namespace std;
 class Room { public: double
length;         double breadth;
double height;         double
calculateArea() {
return length * breadth;
        }
        double calculateVolume() {
            return length * breadth * height;
        }

};
int main() {     Room
room1;     room1.length
= 4.5;
room1.breadth = 3.8;
``` | 17.1 157.32 |

| | ```cpp
    room1.height = 9.2;
cout<<room1.calculateArea()<<room1.calculateVolume();
return 0;
}
``` | |
| 6. | ```cpp
#include <iostream> using
namespace std;
``` | 12.566
4 |

| | ```
#define PI 3.14159
 int main() {      float
r = 2;      float
circle;      circle = 2
* PI * r;
cout<<circle;
return 0;
}
``` | |
| 7. | ```
#include <iostream> using
namespace std;
 int main() {      int a
= 10;      if(a<10)      {
for(i=0;i<10;i++)
cout<<i;
    }
    return 0;
}
``` | error |
| 8. | ```
#include <iostream> using
namespace std;
 int x=1;
void fun() {
int x = 2;
    {      int x =
3;
cout<<::x<<endl;
    }
}
int main() {
fun();
return 0;
}
``` | 1 |
| 9. | | 543 |

```cpp
#include <iostream> using
namespace std;
 int main() {      int
n;      for(n=5; n>0; n-
-) {          cout<<n;
if(n==3)
break;
    }
return 0;
}
```

10.	`#include <iostream> using`
	`namespace std;`
	` int main() {      int`
	`a=10;      if(a<15) {`
	`time: cout<<a;`
	`goto time;`
	`    }`
	`return 0;`
	`}`
		infinitely
		print 10

11.	`#include <iostream>`
	` int main() {`
	`int i;      for(`
	`; ; ) {`
	`      std::cout<<("This loop will run`
	`forever.\n");      }      return 0;`
	`}`
		This loop will run forever infinite times

12.	`#include <iostream> using` `namespace std;`	2035655065

```
  int g =
100;

int main() {
int a;      {
int b;
b=20;
```

```
        a=35;
g=65;
        cout<<b<<a<<g;
    }
a=50;
cout<<a<<g;
    return
0;
}
```

13.	`#include <iostream> using`
	`namespace std;`
	` int main() {`
	`int i;`
	`if(cout<<"0")`
	`i=3;      else`
	`i=5;`
	
	`cout<<i;`
	`return 0;`
	`}`
		3

14.	`#include <iostream>`	1234 4

```cpp
 int main() {      int
i=0,x=0;
for(i=1;i<10;i*=2) {
x++;
        std::cout<<x;
    }
    std::cout<<x;
return 0;
}
```

| 15. | ```cpp
#include <iostream> using
namespace std;

int main() {
int i=3;
int l=i/-2;
int k=i%-2;
cout<<l<<k;
    return
0;
}
``` | -1 1 |
| --- | --- | --- |
| 16. | ```cpp
#include <iostream> using
namespace std;
 int main() {
int a=5, b=6, c;
c=(a>b) ? a : b;
cout<<c;
    return
0;
}
``` | 6 |
| 17. | | 3 |

```cpp
#include <iostream> using
namespace std;
 void fnn() {       int
x=2;       {
int x=3;
cout<<x<<endl;
    }
}   int
main() {
fnn();
return 0;
}
```

| 18. | ```cpp
#include <iostream> using
namespace std;
 class ABC
{ public:
ABC() {
        cout<<"find";
    }      ~ABC() {
cout<<"course";
    }
};
int main() {
ABC obj;
return 0;
}
``` | findcourse |
| 19. | ```cpp
#include <iostream> using
namespace std;
``` | Compiler error |

```cpp
class A {
public:
    void f(){
cout<<"A::f()"<<endl;
    }
};  class
B:public A{
public:
    void fb(){
cout<<"A::fb()"<<endl;
    }
};  class
C:public A{
public:
    void fc(){
cout<<"A::fc()"<<endl;
    }
};  class D: public
B,public C{ public:
    void fd(){
cout<<"A::fd()"<<endl;
}
};
int main() {
D obj;
obj.f();

    return 0;
}
```

| 20 | | error |

```cpp
#include <iostream>
using namespace std;
class B
{       int
b;
public:
B(int i)
{
b=i;
    } };
class C
{
    B b;public:C(int i)
    {
b=B(i);
```

```cpp
    }
    friend void show();
};
void show()
{
    C c(10);
    cout<<"value of b
is:"<<c.b.b<<endl;     int main();
return 0;
}
```

| 21. | ```cpp
#include <iostream>
using namespace std;
int main()
{
    int a=5,b=6,c;
    c=(a>b)?(cout<<"a is greater"):(cout<<"b is
greater");    cout<<c;    return 0;
}
``` | error: cannot convert sic_ostream<char>' n assignment ?(cout<<"a is r"):(cout<<"b greater"); is greater"); |

| 22. | ```cpp
#include <iostream>
using namespace std;
int main()
{
int n;
    for(n=5;n>0;n--)
    {
        cout<<n;
if(n==3)
break;
    }
    return 0;
}
``` | 543 |

| 23. | ```cpp
#include <iostream>
using namespace std;
int main()
{
    int n=1;
    cout<<"the numbers are:";
do {

cout<<n<<endl;
n++;      }
while(n<=100);
cout<<endl;
return 0;
}
``` | Print natural numbers 1 to 100 |
| 24. | ```cpp
#include <iostream>
using namespace std;
int main()
{
``` | 3 |

| | ```cpp
    int i;
    if (cout<<"0:")i=3;
else i=5;
printf("%d",i);     return
0;
}
``` | |
| 25. | ```cpp
#include <iostream> using
namespace std; class Box
``` | error |

```
{        private:
int length;
 public:
Box()
{
        length(0)
{}
        friend int printlength(Box);
    };
    int printlength(Box b)
    {
        b.length += 10;
return b.length;
    }
    int main()

        Box b;
    cout << printlength(b) << endl;

    return 0;
}
```

| 26. | ```#include <iostream>
using namespace std;
int main()
    {   int a = 5, b
= 6, c;   c = (a > b)
? a : b;   cout << c;
return 0;
    }``` | <mark>6</mark> |
| 27. | ```#include <iostream> using
namespace std; class B
{   int
b;
public:
B(int i)
{
b=i;
    }
};
class C``` | <mark>error</mark> |

```
{
B b;public:C(int i)
    {
        b=B(i);
    }
    friend void show();
};
void show()
{
C c(10);
    cout<<"value of b is:"<<c.b.b<<endl;
int main();
    {
        show();
    }
    return 0;
}
```

| 28. | ```
#include <iostream> using
namespace std; namespace
ns1
{
    int a=4;
}
namespace ns2
{
    int a=8;
}
int main()
{    int a=12;
ns1::a,ns2::a;
cout<<ns1::a<<endl;
cout<<ns2::a<<endl;
cout<<a;    return 0;
}
``` | <mark>4</mark><br><br><mark>8</mark><br><br><mark>12</mark> |
| --- | --- | --- |
| 29. | ```
#include <iostream> using
namespace std; class Test
``` | <mark>fun()....fun()const</mark> |

```
{
protected:
    int x;
public:
    Test(int i):x(i)
    {}
void fun()
const     {
        cout<<"fun()const"<<endl;
    }
    void fun()
    {
```

```
        cout<<"fun()"<<endl;
    } };
int main()
{
    Test t1(10);
const Test t2(20);
t1.fun();
t2.fun();

    return 0;
}
```

| 30. | | error |

```cpp
#include <iostream>
using namespace std;
class A {      int a;
public:      int
assign(int i)
const     {
a=i;       }
    int
return_value()
const    {
        return a;
    } };
int main()
{
    A obj;
obj.assign(5);
    cout<<obj.return_value();

    return 0;
}
```

| 31. | ```cpp
#include <iostream>
using namespace std;

int main()
{    int
n=1;
    cout<<"the num
are";    do    {

cout<<n<<endl;
n++;     }
    while(n<=100);
cout<<endl;
``` | <mark>Print natural numbers 1 to 100</mark> |
| --- | --- | --- |
| | ```cpp
    return 0;
}
``` | |
| 32. | | <mark>Compile time error</mark> |

```cpp
#include <iostream> using
namespace std; #define PI
int main()
{
    float r=2;
float circle;
circle=2*PI*r;
cout<<circle;
return 0;
}
```

| 33. | ```cpp
#include <iostream> using
namespace std;

int main()
{   int i,a=10;
if(a<10){
for(i=0;i<10;i++)
cout<<i;
}
else
{
    cout<<i;
  }
  return 0;
}
``` | Garbage value |

| 34. | ```cpp
#include <iostream> class
Test
{ public:
int i;
void get();
};
void Test::get()
{
    std::cout << "enter the value of i:";
std::cin >> i;
} Test t;
int
main()
{
    Test t;
    t.get();
    std::cout << "value of i in local t:" << 'n';
    ::t.get();
    std::cout << "value of i in global t:" << ::t.i << 'n';
return 0;
}
``` | Compiles and run fine |

| 35. | ```cpp
#include <iostream> using
namespace std; inline
void
displayNum(int num)
{
    cout<<num<<endl;
}
int main()
{
    displayNum(666);

    return 0;
}
``` | 666 |
| 36. | ```cpp
#include <iostream> using
namespace std; namespace
first
{
    int x=5;
int y=10;
}
namespace second
{
    double x=3.1416;
double y=2.7183;
}
int main()
{
    using first::x;
using second::y;
bool a,b;
a=x>y;

b=first::y<second::x;
cout<<a<<b;      return
0;
}
``` | 10 |
| 37. | | Compile time error |

```cpp
#include <iostream>
using namespace std;
class TEMP
    {        int
x;        public:
TEMP();
~TEMP();
void Show()
const
    };
        TEMP::TEMP()
        {
x=50        }
        void TEMP
Show()        const{
cout<<x;
        }
```

```cpp
        int main()
        {
            TEMP obj;
obj.Show();        return
0;
        }
```

38.

```cpp
#include <iostream>
using namespace std;
class ABC
    {
public:
        ABC()
{
            cout<<"find";
        }
        ~ABC()
{
            cout<<"course";
        }
};
    int main()
    {
        ABC obj;
return 0;
    }
```

findcourse

39.

```cpp
#include <iostream>
using namespace std;
int main()
```

6

```cpp
    {           int a = 5, b
= 6, c;          c = (a > b)
? a : b;          cout << c;
return 0;
    }
```

40.	```cpp #include <iostream> using namespace std; int grades(int a = 0, int b= 0, int c) { return (a+b+c); } int main() { cout << grades(10); return 0; } ```	<mark>Compile time error</mark>
41.	```cpp #include <iostream> using namespace std; class A ```	<mark>erro r</mark>

```cpp
{      int
x;
public:
    void setX(int i) { x = i;}
void print() { cout << x;}
};   class
B:public A
{
public:
    B() {setX(10);}
};   class
C:public A
{
public:
    C() {setX(20);}
};   class D:public B,
public C{

};
int
main() {
D d;
    d.print();
return 0;

}
```

42.		Option d(Class fail)

```cpp
#include <iostream> using
namespace std;
 abstract class
student
{     public: int
grades;
calc_marks();
} class student1:public
student
{
    public : calc_marks()
    {
return 20;
    } };
class student2:public student
{
```

```cpp
    public : calc_marks()
    {
return 30;
    } }; class
fail {     int
grades;
};
```

| 43. | ```cpp
#include <iostream>
using namespace std;
int main()
{     int arr[] =
{10,20,30,40,50};     int*p =
arr;    p+= 3;    cout<<*p;
return 0;
}
``` | 40 |

| 44. | ```cpp
#include <iostream>
using namespace std;
``` | student1 Age=20 student2 Age=25 |

```cpp
 class student
{        private:
int age;
public:
    student() {
age = 20;
    }
    student(int a) {
age = a;
    }        int
getAge() {
return age;
    } };
int main()
{
    student stu1, stu2(25);
    cout<< "student1 Age = " << stu1.getAge()<< endl;
cout<< "student2 Age = " << stu2.getAge()<< endl;

    return 0;
}
```

| 45. | ```cpp
#include <iostream>
using namespace
std; class Base{
int ABC;
}; class Derived1 :
Base{
}; class Derived2 :
Derived1{
};
int main()
{
    Derived2 D;
cout << sizeof(D);
return 0;
}
``` | 4 |
| --- | --- | --- |
| 46. | ```cpp
#include <iostream> using
namespace std;
``` | count:1 2 |

```cpp
 class ABC{
private:
int x;
public:
    ABC() : x(10) {}
void operator ++(){
x = x+2;
    }     void Print() {
cout << "count:" << x;
    } }; int
main() {
ABC obj;
++obj;
obj.Print();
return 0;
}
```

47.
```cpp
#include <iostream> using
namespace std;
 class Box{
int capacity;
public:
    Box() {}
    Box(double capacity) {
        this->capacity = capacity;
    }
};
```

```cpp
Bool
operator==(box b)
{
return this->capacity <
b.capacity ? true :
false;
}
```

```cpp
int main()
{
    Box b1(10);
Box b2 = Box(14);
if(b1 == b2) {
cout<<"Equal";
    }    else{
cout<<"Not Equal";
    }
    return 0;
}
```

| 48. | ```cpp
#include <iostream> using
namespace std;
 class Test{
protected:
    int x;
public:
    Test(int i):x(i) {}      void fun() const {cout
<< "fun() const" << endl;
    }    void fun() {cout << "fun()"
<< endl;
    } };
int main() {
    Test t1 (10); const Test t2
(20);    t1.fun();    t2.fun();
return 0;
}
``` | fun() fun() const |
| 49. | ```cpp
#include <iostream> using
namespace std;
``` | 8 |

```
 namespace
first{      int
var=5;
}
namespace second{
double var=3.1416;
}
int main() {     int a;
a=first::var+second::var;
cout<<a;
```

```
    return 0;
}
```

| 50. | ```
#include <iostream> using
namespace std;
 class A {      private:     int
x,y;     public:void A(int a,
int b) {          x=a; y=b;
    }
};
int main() {
A s;
return 0;
}
``` | Compile time error |
| 51. | | 10 |

```cpp
#include <iostream> using
namespace std;
 class Box {
private:       int
length;        public:
Box():length(0) {}
    friend int printLength(Box);
}; int printLength(Box
b) {
    b.length +=10;
return b.length;
}
int main() {       Box b;
cout<<printLength(b)<<endl;
return 0;
}
```

| 52. | ```cpp
#include <iostream>

using namespace std;
 class Box {       int
capacity;      public:
Box(int cap) {
capacity = cap;
``` | value of capacity is :10 |

```cpp
    }       friend void
show();

};
void show() {     Box b(10);      cout<<"Value of
capacity is:"<< b.capacity<<endl;
} int main()
{
show();
return 0;
}
```

| 53. | ```cpp
#include <iostream> using
namespace std;
``` | 15 |

```cpp
 class base {
int val1 , val2;
public:
    void get() {
cout<<"Enter two values:";
cin>>val1>>val2;
    }       friend float
mean(base ob);
}; float mean(base ob) {       return
float(ob.val1 + ob.val2) /2;
}; int main () {     base obj;
obj.get();      cout<<"\n Mean value is:" <<
mean(obj);      return 0;
}
```

| 54. | ```cpp
#include <iostream> using
namespace std;
 class Point
{
public:
Point() {
        cout << " Constructor called";
    } }; int
main() {
Point t1;
return 0;
}
``` | <mark>Constructor called</mark> |

| 55. | ```cpp
#include <iostream>
 using namespace
std;
``` | <mark>Value of capacity is: 10</mark> |

```
 class Box {      int
capacity;     public:
Box(int cap) {
capacity = cap;
    }     friend void
show();


};
void show() {     Box b(10);      cout<<"Value of
capacity is:"<< b.capacity<<endl;
} int main()
{
show();
return 0;
}
```

56.

57.
```
#include <iostream>
using namespace
std; class TEMP {
int x;      public:
TEMP();
~TEMP();
    void Show() const;
};
TEMP::TEMP() {
x = 50;
} void TEMP::Show()
const{     cout<< x;
}
int main() {
    TEMP obj; obj.Show(); return 0;
}
```
50

58.
```
#include <iostream>
```
10

```
using namespace std;

int main()
{     int i;
for(i=0; i<10;i++); {
cout<<i;
    }
return 0;
}
```

| 59. | ```
#include<iostream> using
namespace std;
 class
A { int
x;
public:
void setX(int i){x=i;} void
print() {cout<<x;}
};   class B :
public A { public:
B() {setX(10);}
};   class C :
public A { public:
C() {setX(20);
};   class D : public B,
public C {

};
int main() {
    D d;
    d.print();
return 0;
}
``` | 10 20 |

| 60. | ```
#include<iostream> using
namespace std;
``` | 31 |

```
 int fun (int x,int *py, int
**ppz)
{      int
y,z;
```

```
    **ppz += 2;
z = **ppz;
*py += 12;      y
= *py;       x +=
3;      return
x+y+z;
}
int main()
{      int c,*b,**a;
c=4;      b=&c;
a=&b;
cout<<fun(c,b,a);
return 0;
}
```

| 61. | ```#include <iostream> using
namespace std;
 class calculate
{ private: int
val; public:
calculate ():val(5){} void
operator ++() {
++val; } void display() { cout
<<"Calculated values is: "<<val<<endl;
} }; int main
() { calculate
cal1;
++cal1;
cal1.display(); return
0;
}``` | <mark>Calculated value is: 6</mark> |

| 63. | | <mark>Error : ambiguous</mark> |

```cpp
#include <iostream> using
namespace std;

class Test
{
    int a;
}; class
Test1 {
```

```cpp
int x; Test
t2; public:
operator Test() {return t2;} operator
int() {return x;}
}; void disp(int x){cout<<"disp(int)
called";} void disp (Test
t){cout<<"disp(Test)called"; } int main () {
Test1 t; disp(t); return 0;
}
```

64.

```cpp
#include <iostream>
#include <string> using
```

```cpp
namespace std; class
simcard
{      int
limit;

public:
    simcard() {}
    simcard(double limit)
    {          this->limit =
limit;
    }      bool
operator<(simcard b)
    {
        return b.limit < this->limit ? true : false;
    }
};
int main()
{
    simcard s1(10);
simcard s2 = simcard(14);
if (s1 < s2)
    {          cout << "limit of simcard1 is
less";
    }      else      {          cout << "limit
of simcard2 is less";
    }
    return 0;
}
```

| 65. | ```cpp #include<iostream> using namespace std; int main() { int arr[]={10,20,30,40,50}; int*p=arr;   p+=3; cout<<*p;   return 0; } ``` | 40 |
| 66. | | 50 49 |

```cpp
#include<iostream> using
namespace std;

int main()
{       int
arr[]={10,20,30,40,50};
int*p=arr;       p+=4;
    cout<<*p<<" ";
    --*p;
cout<<*p;
return 0;
}
```

| 67. | ```cpp
#include<iostream> using
namespace std; void
disp(int x)
{       cout
<<x;
} void disp(double
y)
{
cout<<y;
} int
main(void)
{ disp(8);
disp(500.263);
return 0;
}
``` | 8500.263 |
| 68. | ```cpp
#include<iostream> using
namespace std;
 class Box
{ private
:
``` | 10 |

```cpp
int length; public:
Box():length(0) {}
friend int printLength(Box);
}; int printLength (Box
b)
{
b.length+=10;
return b.length; }
int main ()
{ Box b;
cout<<printLength(b)<<endl;
return 0;
}
```

| 69. | <pre>#include<iostream> using
namespace std;

class Box
{ int
capacity;
public:
Box(int cap)
{
capacity=cap;
} friend void
show();
};
void show()
{
    Box b(10);
    cout<<"value of capacity is "<< b.capacity<<endl;
}
int main ()
{
show();
return 0;
}</pre> | Value of capacity is 1 0 |

| 70. | <pre>#include<iostream> using
namespace std;</pre> | 0 |

```
 int main() {      int i, a =
10;       if (a < 10) {
for (i = 0; i < 10; i++)
cout << i;
    }
```

```
    else {
        cout << i;
    }
    return 0;
}
```

| 71. | ```
#include<iostream> using
namespace std;
 namespace Box1
{     int a =4;
}   namespace
Box2 {      int
a =13;
}   int main
() {      int
a=16;
Box1::a;
Box2::a;
cout<< a;
return 0;
}
``` | 16 |

| 72. | ```
#include<iostream> using
namespace std;
 namespace ns1
{     int a =
4;
}   namespace
ns2 {      int
a = 8;
}
``` | 4<br><br>8<br><br>12 |

```cpp
int main () {        int a =
12;        ns1::a;
ns2::a;        cout <<
ns1::a << endl;        cout
<< ns2::a << endl;
cout << a;        return 0;
}
```

| 73. | ```cpp
#include<iostream>  using
namespace std;
 class Box {
private:       int
length;
public: Box():
``` | 10 |

| | ```cpp
     length(0) { }       friend
int printLength(Box);
};  int printLength(Box
b) {
    b.length += 10;
return b.length;
}
int main() {      Box b;      cout
<< printLength(b) << endl;
return 0;
}
``` | |

| 74. | ```cpp
#include<iostream>  using
namespace std;
``` | Value of the capacity is: 10 |

```
 class Box {        int
capacity;       public:
Box(int cap){
capacity = cap;
    }      friend void
show();
};
void show() {       Box b(10);       cout<<"Value of
capacity is: "<< b.capacity<< endl;   }   int main() {
show();       return 0;
}
```

| 75. | ```
#include <iostream> using
namespace std;
 class B {      int
b;       public:
B(int i){           b
= i;
    }
};
class C{
B b;
    public: C(int i) {
b= B(i);
}   friend void
show();
``` | Error |

| | ```
};
void show() {       C c(10);
cout<<"value of b is: "<< c.b.b << endl;
}   int
main(){
show();
return 0;
}
``` | |

| 76. | ```
#include<iostream>
``` | This loop will run |

| | ```cpp
 int main() {       int i;       for (; ;) {
std::cout<<("This loop will run forever. \n");
    }
    return 0;
}
``` | <mark>forever. infinitely</mark> |
| 77. | ```cpp
#include<iostream> using
namespace std;  int fun(int x=0,
int y=0, int z) {      return
(x+y+z);
}  int main() {
cout << fun(10);
return 0;
}
``` | <mark>Compiler error</mark> |
| 78. | ```cpp
#include <iostream> using
namespace std;

class Point {
Point() {
        cout<<"Constructro called";
    } }; int
main() {
Point t1;
return 0;
}
``` | <mark>Compiler error</mark> |
| 79. | ```cpp
#include <iostream> using
namespace std;
 class course {      int
x,y;      public:
course(int xx){
``` | <mark>20 19</mark> |

```
        x= ++xx;
    }      void
Display(){
cout<<--x<<" ";
    }
};   int main() {
course obj(20);
obj.Display();
obj.Display();
return 0;
}
```

| 80. | ```
#include <iostream> using
namespace std;
 class TMP {       int p;
public:TMP(int xx, char ch){
p = xx + int(ch);
cout<<p;
    }
};
int main() {
    TMP obj(15,'A');
return 0;
}
``` | <mark>80</mark> |

| 81. | ```
#include <iostream> using
namespace std;
 class A {      static int x;
public: static void Set(int xx){
x=xx;
``` | <mark>The program will report compile time error r</mark> |

```
        }     void
Display(){
cout<<x;
        }
};   int
A::x=0;

int main() {
A::Set(33);
A::Display();
return 0;
```

```
}
```

| 82. | ```
#include <iostream> using
namespace std;
 class
constt{
public:
int a, b;
    // Default Constructor constt() {a=10; b=20;}
};   int
main() {
    // Default constructor called
automatically    // when the object is
created constt c;     constt c;     constt
c1(10,20);
cout<<"a:"<<c.a<<endl<<"b:"<<c.b;
    return
1;
}
``` | <mark>No output</mark> |
| 83. | | <mark>Compile time error</mark> |

```cpp
#include <iostream> using
namespace std;
 class A{      private:
int x, y;      public:
void A(int a, int b){
x=a;          y=b;
    }
};
int main() {
A s;
return 0;
}
```

84.
```cpp
#include <iostream> using
namespace std;
 int i;
class A{
public:
~A(){
i=10;
```
1

```cpp
    }
};  int
foo(){
i=3;      A
ob;
return 1;
}  int main() {
cout<<foo()<<endl;
return 0;
}
```

85.

20 19

```cpp
#include <iostream> using
namespace std;
 class
course{
int x, y;
public:
    course(int xx){
x=++xx;
    }       void
Display(){
cout<<--x<<" ";
    }
};   int main() {
course obj(20);
obj.Display();
obj.Display();
return 0;
}
```

OUTPUT BASED IMPORTANT QUESTIONS-2

1.What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
int main()
{
        int i=3;
        int l=i/-2;
        int k= i% -2;
        cout<<l<<k;
        return 0;
}
```

- Compile time Error
- **-1 1**
- 1 -1
- Implementation defined

2.What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
namespace first
{ int var= 5; }
namespace second
{
        double var =3.1416 ;
}
int main()
{
        int a;
        a= first :: var + second:: var;
        cout<<a;
        return 0;
}
```

- 8.31416
- **8**
- 9
- Compile time Error

3. What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;

int g=100;
int main()
{
        int a;
        {
                int b;
                b=20;
                a=35;
                g=65;
                cout<<b<<a<<g;
        }
        a=50;
        cout<<a<<g;
        return 0;
}
```

- **2035655065**
- 2035655035
- 2035635065
- 2035645065

4. What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
class Test {
        protected:
                int x;
        public:
                Test (int i):x(i) { }
        void fun() const
        {
          cout<<"func() const" <<endl;
        }
        void fun()
        {
```

```cpp
            cout<<"fun()"<<endl;
        }
};

int main()
{
        Test t1 (10);
        const Test t2(20);
        t1.fun();
        t2.fun();
        return 0;

}
```

- **fun() ---- fun() const**
- fun() const ---- fun()
- fun() --- c) fun()
- fun() const ---- fun() const

5. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;

class A
{
        int a;
        public:
        int assign(int i)
                const {a=i;}
        int return_value()
                const { return a;}
};
int main()
{
        A obj;
        obj.assign(5);
        cout<<obj.return_value();
}
```

- 5
- -5
- 10

- Error

6. . What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;

int main()
{int n=1;
cout<<"The numbers are";
do
{
  cout<<n<<endl;
  n++;
}
while (n<=100);
cout<<endl;
}
```

- Print natural numbers 0 to 99
- Print natural numbers 1 to 99
- Print natural numbers 0 to 100
- **Print natural numbers 1 to 100**

7.What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;

inline void displayNum (int num)
{
        cout<<num<<endl;
}
int main()
{
        displayNum(666);
        return 0;
}
```

- 6
- 66
- **666**
- Compile time Error

8.**What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
class Test {
    public:
            void Testfunc()
            {
                    cout<<"Hello from Test()";
            }
}a;
int main()
{
    a.Testfunc();
    cout<<"Main Started";
    return 0;
}
```

- Main Started
- Main Started Hello from Test()
- **Hello from Test() Main Standard**
- Compile Error :Global objects are not allowed

9. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
class Empty {};
int main()
{
    cout<<sizeof(Empty);
    return 0;
}
```

- **A non-zero value**
- 0
- Compile Error
- Runtime Error

10. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
```

```cpp
using namespace std;
class Mycpp();
int main()
{
    Mycpp obj;
    return 0;
}
```

- Compilation Error - Constructor Missing
- **Nothing would be printed**
- Undefined
- In constructor

11.What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
void addprint()
{
    static int s=1; s++;
    cout<<s;
}
int main()
{
    addprint();
        addprint();
                addprint();
                return 0;
}
```

- **234**
- 111
- 123
- 235

12. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
```

```cpp
class course
{
        int x,y;
        public:
                course(int xx)
                {
                        x= ++xx;
                }
        void Display()
        {
                cout<<--x << " ";
        }
};
int main()
{
        course obj(20);
        obj.Display();
        obj.Display();
        return 0;
}
```

- **20   19**
- 21   4
- 20   5
- 21   19

13.**What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;

namespace Box1 {
        int a=4;
}
namespace Box2
{
        int a=13;
}
int main()
{
        int a=16;
        Box1::a;
        Box2::a;
        cout<<a;
```

```
        return 0;
}
```

- 4
- 13
- **16**
- Compile Time Error

14.What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
class Room
{public:
        double length; double breadth; double height;
double calculateArea()
        {return length*breadth;
        }
double calculateVolume()
        {return length*breadth*height;
        }
};
int main()
{
        Room room1;
        room1.length=4.5;
        room1.breadth=3.8;
        room1.height=9.2;
        cout<<room1.calculateArea()<< room1.calculateVolume();
        return 0;
}
```

- **17.1 157.32**
- 17 157
- 16.9 156.3
- Error

15. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
class Temp
```

```cpp
{
static int x;
public:
static void Set(int xx){x=xx;}
void Display()
{cout<<x;
        }
};

int Temp::x=0;
int main()
{
        Temp::Set(33);
        Temp::Display();
return 0;
}
```

- The program will print the output 0.
- The program will print the output 33.
- The program will print the output Garbage.
- **The program will report compile time error.**

16. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
class ABC{
      public:
            ABC()
            {
                  cout<<"find";
            }
      ~ABC()
      {
            cout<<"course";
      }
};
int main()
{
      ABC obj;
      return 0;
}
```

- Find
- Course
- **findcourse**
- Compile time Error

17.What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
class CLS{
        int x;
        public:
                CLS(int xx, float yy)
                {
                        cout<<char(yy);
                } };
        int main()
        {
                CLS obj(35,99.50);
                return 0;
        }
```

- 99
- **ASCII value of 99**
- Garbage value
- 99.5

18. What will be the output of the following C++ code?

```cpp
#include <iostream>
#include <string>
using namespace std;
class Box
{
        int capacity;
    public:
        Box(int cap){
                capacity = cap;
        }

        friend void show();
```

```
};

void show()
{
        Box b(10);
        cout<<"Value of capacity is: "<<b.capacity<<endl;
}

int main()
{
        show();
        return 0;
}
```

- **Value of capacity is: 10**
- Value of capacity is: 100
- Error
- Segmentation fault

19. **What will be the output of the following code if two input values taken are 10 & 20.**

```
#include <iostream>
using namespace std;
class base{
        int val1, val2;
        public:
                void get(){
                        cout<<"Enter two values :" ;
                        cin>>val1>>val2;
                }
 friend float mean(base ob);
  };
  float mean(base ob)
  {
    return float(ob.val1 + ob.val2) / 2;
  }
  int main()
  {
    base obj;
    obj.get();
    cout <<"Mean value is "<< mean(obj);
    return 0;
```

```
  }
```

- 10
- 20
- **15**
- 25

20. What will be the output of the following C++ code?

```cpp
#include <iostream>
using namespace std;
class Box
{
    private:
        int length;
    public:
        Box(): length(0) { }
        friend int printLength(Box);
};
int printLength(Box b)
{
    b.length += 10;
    return b.length;
}
int main()
{
    Box b;
    cout<< printLength(b)<<endl;
    return 0;
}
```

- 9
- **10**
- 20
- 30

21. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
 void fnn()
 {
```

```cpp
        int x=2;
        {
                int x=3; cout<<x<<endl;
        }
}
int main()
{
        fnn();
        return 0;
}
```

- 1
- 2
- **3**
- 0

22. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
class A{
        int id; static int count;
        public:
                A()
                {
                        count++; id= count;
                        cout<<"Constructer for id"<<id<<endl;
                }
        ~A()
        {
                cout<<"Destructor for id"<<id<<endl;  }
};
int A::count=0;
int main()
{
        A a[3];
        return 0;
}
```

- **constructor for id 1 constructor for id 2 constructor for id 3 destructor for id 3 destructor for id 2 destructor for id 1**
- constructor for id 1 constructor for id 2 constructor for id 3 destructor for id 1 destructor for id 2 destructor for id 3
- Compiler dependent

- Constructor for id 1 destructor for id 1

23. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
class A{
      public:
              ~A()
              { int i=10; } };
      int foo() {
              int i=3; A obj;
              return i;
      }
int main()
{
      cout<<foo()<<endl;
      return 0;
}
```

- 0
- 10
- **3**
- 5

24. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
int fun(int x=0, int y=0, int z)
{
      return (x+y+z);
}
int main()
{
      cout<<fun(10);
      return 0;
}
```

- 10
- 0
- 20
- **Compile Error**

25. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
int main()
{
    int i=1;
    i=i-1; while(i){
        cout<<"Its a while loop";
        i++;
    }
    return 0;
}
```

- 1
- 2
- **0**
- Infinite times

26. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
int main(){
    int n;
    for(n=5;n>0;n--)
    {
        cout<<n;
        if (n==3)
          break;
    }
    return 0;
}
```

- **543**
- 53
- 5432
- 54

28. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
```

```cpp
namespace ns1
{
   int a=4;
}
namespace ns2
{
   int a=8;
}
int main()
{
   int a=12;
   ns1::a;
   ns2::a;
   cout<<ns1::a<<endl;
   cout<<ns2::a <<endl;
       cout<< a;
   return 0;

}
```

- **4 8 12**
- 8 12   4
- 12   4   8
- Compile Time Error

29. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
int main(){
      int i=0,x=0;
      for(i=1;i<10;i*=2)
      {
              x++; std::cout<<x;
      }
      std::cout<<x;
      return 0;
}
```

- 1234567899
- 12345678910
- 123455
- **12344**

30.What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
int main()
{
        int i,j;  j=10;
        i=(j++,j+100,999+j);
        cout<<i;
        return 0;
}
```

- 1000
- 11
- **1010**
- 1001

31. What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
int main()
{
        int i; for(i=0; i<10; i++);
        {cout<<i;
        }
        return 0;
}
```

- 123456789
- **10**
- 12345678910
- Compile time Error

32. Which of the following is true about the following program:

```
#include<iostream>
using namespace std;
class Test
{
   public:
        int i;
```

```cpp
        void get();
        };

    void Test::get()
    {
        std::cout<<"Enter the value of i:";
        std::cin>> i;
    }


        Test t;// Global object
        int main()
    {
        Test t;// local object
                t.get();
        std::cout <<"value of i in local t:"<<t.i<<'n';
                ::t.get();
        std::cout <<"value of i in global t:"<< ::t.i <<'n';
        return 0;
    }
```

- Compile Error: Cannot have two objects with same class name
- Compiler Error in Line "::t.get();"
- Compile Error in line "std::cout"
- **Compiles and Runs Fine**

33. What will be the output of the following C++ code?

```cpp
#include<iostream>
using namespace std;
int main()
{
        int a=10;
        if(a<15){
                time:cout<<a;
                goto time;
        }
        return 0;
}
```

- 1010
- 10
- **Infinity print 10**
- Compile time error

34. What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
class B{
        private: int b;
        public:
                void showA(){
                        std::cout<<"Hello";
                } };
int main()
{
        B b;
        b.showA();
}
```

- **Hello**
- Hello Hello
- No output
- Compile Time Error

35. What will be the output of the following C++ code?

```
#include<iostream>
using namespace std;
int main()
{
        int a=5,b=6,c;
        c=(a>b)?a:b;
        cout<<c;
        return 0;
}
```

- 4
- 5
- **6**
- 7

36. What will be the output of the following C++ code?
```
#include<iostream>
using namespace std;
```

```cpp
class TMP {int p;
public:
        TMP(int xx, char ch)
        {
                p=xx+int (ch);
                cout<<p;
        } };
int main(){
        TMP obj(15,'A');
        return 0;
}
```

- **80**
- 112
- Compilation error
- Garbage Value

37. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
class ABC{
        public:
                void ABC1()
                {
                        cout<<"find";
                }
};
int main(){
        ABC obj; ABC a;
        return 0;
}
```

- F
- Find
- **No output**
- Compile Time error

38. **What will be the output of the following C++ code?**

```cpp
#include<iostream>
using namespace std;
int main()
{
        int a=5,b=6,c;
```

```
        c=(a>b)?(cout<< " a is greater"):(cout<< " b is greater");
        cout<<c;
        return 0;
}
```

- 4
- 5
- 6
- **Error**

39. What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
int f(int p,int q)
{
        if(p>q)
        return p;
        else
        return q;
}
int main()
{
int a=5,b=10;    int k;
bool x=true;
bool y=f(a,b);
k=((a*b)+(x+y));
cout<<k;
}
```

- 55
- **52**
- 62
- 75

40. What will be the output of the following C++ code?

```
#include <iostream>
using namespace std;
namespace first
{
   int x=5;
   int y=10;
```

```
}
namespace second
{
   double x=3.1416; double y=2.7183;
}
int main()
{   using first::x;
   using second::y;
   bool a,b;   a=x>y;b=first::y<second::x;
   cout<<a<<b;
   return 0;
}
```

- 11
- 1
- 0
- **10**

41. **What will be the output of the following C++ code?**

```
#include<iostream>
using namespace std;

#define PI 3.14159
int main()
{
      float r=2;
      float circle;
      circle= 2* PI *r;
      cout<<circle;
      return 0;
}
```

- **12.5664**
- 13.5664
- 10
- 15

42. **What will be the output of the following C++ code?**

```
#include<iostream>
using namespace std;
int main()
{
        int a=10;
        if(a<10)
        {
                for(i=0;i<10;i++)
                cout<<i;
        }
   else
   {
        cout<<i;
        }
        return 0;
}
```

- 123456789
- 123456789
- 0
- **Error**

43. **What will be the output of the following C++ code?**

```
#include<iostream>
using namespace std;
class course{
        int x,y;
        public:
                void course1(int xx, int yy){
                        x=++xx;   y=++yy;
                }
        void Display()
        {
                cout<<x+y<<" ";
        } };
int main(){
        course obj;
        obj.course1(20,30);
        obj.Display();
        return 0;
```

}

- 50
- **52**
- 20
- 30