DSA0151-ASSIGNMENT-02

1. Identify the error in program #include<iostream> void main() int i=0; i=i+1; cout<<i<" "; cout<<i; Output:

L:\Users\Janan\Uocuments\Error-day\Z.cpp - Uev-L++ 3.11

File Edit Search View Project Execute Tools AStyle Window Help Project Classes Debug Error-day2.cpp 1 #include<iostream> 2 void main () 3 ₽ { 4 int i=0; i=i+1; cout<<i<<" "; 5 6 cout<<i; 8 [[] } 9 10 Compiler (6) a Resources of Compile Log 🗸 Debug 🗓 Find Results 📳 Close Line Col File 2 12 C:\Users\Jahnavi\Documents\Error-day2.cpp [Error] '::main' must return 'int C:\User\Jahnav\Documents\Error-day\2.cpp [Error] ':main' must return 'int'
C:\Users\Jahnav\Documents\Error-day\2.cpp | Infuction 'int main':
C:\Users\Jahnav\Documents\Error-day\2.cpp | [Error] 'cout' was not declared in this scope |
C:\Users\Jahnav\Documents\Error-day\2.cpp | [Note] suggested alternative |
C:\Users\Jahnav\Documents\Error-day\2.cpp | [Note] significant of the C:\Users\Jahnav\Documents\Error-day\2.cpp | [Note] significant of the C:\Users\Jahnav\Documents\Error-day\2.cpp | [Note] significant of the C:\Users\Jahnav\Documents\Error-day\2.cpp | [N 2. Identify the error #include<iostream.h> void main()

```
#include<iostream.h>
void main()
{
    short i=2500, j=3000;
    cout>>" i+j ">>=(i+j);
}

Answer:

using namespace std;
#include<iostream>
int main()
{
    short i=2500, j=3000;
    cout<<" i+j "<<i+j;
```

```
return 0;
Output:
File Edit Search View Project Execute Tools AStyle Window Help
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Project Classes Debug
                     Error-day2.cpp
                      1 #include<iostream>
                      2 void main ()
                      3 □ {
4
5
6
                                  int i=0;
                                  i=i+1;
                                  cout<<i<" ";
                      7
                                  cout<<i;
                      8 L }
                      9
                     10
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2 12 C:\Users\Jahnavi\Documents\Error-day2.cpp [Error] '::main' must return 'int'
          C:\Users\Jahnavi\Documents\Error-day2.cpp
                                                   In function 'int main()':
[Error] 'cout' was not declared in this scope
          C:\Users\Jahnavi\Documents\Error-day2.cpp
                                                    [Note] suggested alternative:
     0 C\Users\Jahnav\\Documents\Error-day2.cpp In file included from C\Users\Jahnav\\Documents\Error-day2.cpp

18 C\Program Files (x86)\Dev-Cpp\MinGW64\lib\gcc\xx86_... [Note] 'stdt:cout'
```

3. What will happen when you run following program. #include<iostream.h> void main() { int i=10, j=5; int modresult=0; int divresult=0; modresult=i%j; cout<<modresult;</pre> divresult=i/modresult; cout<<divresult; } */ using namespace std; #include<iostream> int main() { int i=10, j=5; int modresult=0; int divresult=0; modresult=i%j; cout<<modresult; divresult=i/modresult; cout<<divresult;



4. Write a c++ program

What happens if the following program is executed in C and C++?

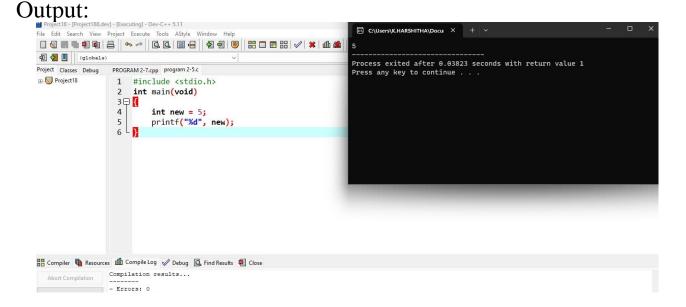
```
/*
#include <stdio.h>
int main(void)
{
        const int j = 20;
        int *ptr = &j;
        printf("*ptr: %d\n", *ptr);
        return 0;
```

```
*/
     using namespace std;
     #include<iostream>
     int main(void)
               int j = 20;
               int *ptr = \&j;
               cout<<(*ptr);</pre>
               return 0;
     Output(1):
     (globals)
     Project Classes Debug
                     PROGRAM 2-7.cpp program 2-4.c
                                                                          Process exited after 0.03078 seconds with return value 0 Press any key to continue . . .
     ⊕ Project14
                      1 #include <stdio.h>
                          int main(void)
                      3日【
                      4
                              const int j = 20;
                              int *ptr = &j;
printf("*ptr: %d\n", *ptr);
                      6
                              return 0;
     Output(2):
     C\Users\Jahnavi\Documents\Int-Day2.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help
                                                                                                                                      ■ Select C:\Users\Jahnavi\Documents\Int-Day2.exe
                                                                                                                                 ocess exited after 0.01728 seconds with return value 0 ress any key to continue . . .
      Project Classes Debug
                      Error-day2.cpp Error rectify-Day 2.cpp Div-Day2.cpp New-Day2.cpp Int-Day2.cpp square root.cpp [*] Untitled7 ij.
                      🔡 Compiler 🖣 Resources 🛍 Compile Log 🤣 Debug 🚨 Find Results 🍇 Close
                    Compilation results...
     -Errors: 0
- Warnings: 0
- Warnings: 0
- Output Filename: C:\Users\Jahnavi\Documents\Int-Day2.exe
- Output Filename: 0.55s
- Compilation Time: 0.55s
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                                                                                                                     5. What happens if the following program is executed in C and C++?
     #include <stdio.h>
     int main(void)
               int new = 5;
```

printf("%d", new);

}



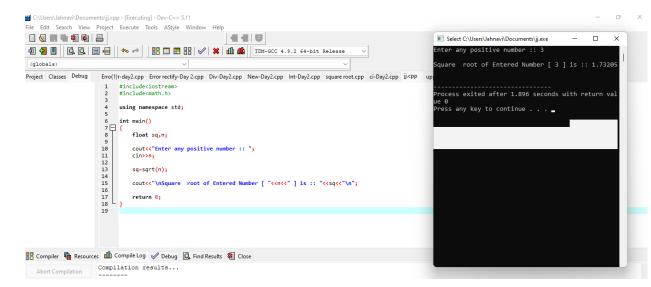
6. Write c++ program for finding Square root of number.

```
#include<iostream>
#include<math.h>

using namespace std;

int main()
{
    float sq,n;
    cout<<"Enter any positive number :: ";
    cin>>n;
    sq=sqrt(n);
    cout<<"\nSquare root of Entered Number [ "<<n<<" ] is :: "<<sq<<"\n";
    return 0;
}

Output:</pre>
```



7. A person wants to find his birthday day, but he has known no of days present only. Find the no of days, no of years and no of weeks present for his birthday.

Output:

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```
COULers/MainwiDocuments/days.exe
ears = 0
recks = 28
rocess exited after 0.1069 seconds with return value 0
ress any key to continue . . .
```

8. A person wants to invest amount in financial institution and he wants find the compounded interest he will get, if no of year 385000, roi is 13.89 and time period is 4. Write the code for above scenario.

```
#include<iostream>
#include<math.h>
using namespace std;

int main()
{
    float p,r,t,ci;

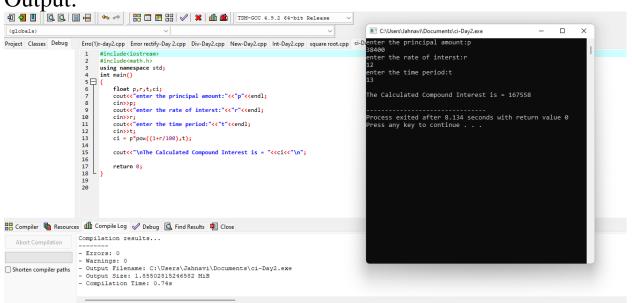
    cout<<"Enter Principle (Amount) :: ";
    cin>>p;
    cout<<"\nEnter Rate of Interest :: ";
    cin>>r;
    cout<<"\nEnter Time Period :: ";</pre>
```

```
cin>>t;
ci = p*pow((1+r/100),t);
cout<<"\nThe Calculated Compound Interest is = "<<ci<<"\n";
return 0;
}
/* C++ Program to Calculate Compound Interest */
Enter Principle (Amount) :: 385000
Enter Rate of Interest :: 13.89
Enter Time Period :: 4</pre>
```

Process returned 0

The Calculated Compound Interest is = 647744

Output:



9. C++ Program to Check Character is Uppercase, Lowercase, Digit or Special

```
#include<iostream>
using namespace std;
int main()
{
   char ch;
```

```
cout<<"Enter any character to check :: ";
cin>>ch;

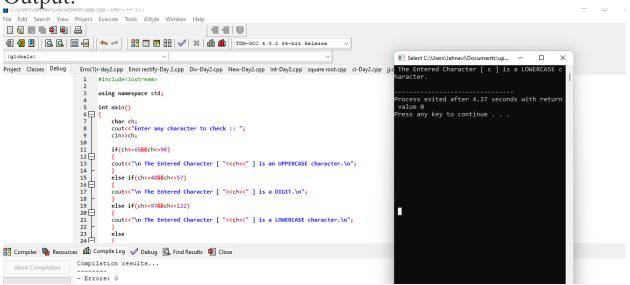
if(ch>=65&&ch<=90)
{
    cout<<"\n The Entered Character [ "<<ch<<" ] is an UPPERCASE
character.\n";
}
    else if(ch>=48&&ch<=57)
{
        cout<<"\n The Entered Character [ "<<ch<<" ] is a DIGIT.\n";
}
    else if(ch>=97&&ch<=122)
{
        cout<<"\n The Entered Character [ "<<ch<<" ] is a LOWERCASE
character.\n";
}
    else
{
        cout<<"\n The Entered Character [ "<<ch<<" ] is an SPECIAL character.\n";
}
    return 0;
}</pre>
```

/* C++ Program to Check Character is Uppercase, Lowercase, Digit or Special */

Enter any character to check :: M

The Entered Character [M] is an UPPERCASE character.

Output:



10. Write a program to display ascii value of character.

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

int main()
{
    char c;
    cout << "Enter any Character :: ";
    cin >> c;

    cout << "\nThe ASCII Value of Character [ "<< c << " ] is :: " << int(c)<<"\n";
    return 0;
}</pre>
```

Enter any Character :: C

The ASCII Value of Character [C] is :: 67

Output:

