MA144: **Problem Solving and Computer Programming**

Lecture-14

Class Test-1 paper discussion

The continue & break statements

```cpp
int main(){
    int i;
  for (i=1;i<=3;i++)
  { cout<<"role of continue statement\n";
    continue;
    cout<<"this cannot be printed";
    cout<<"this also";
  }
return 0;
}
```

```cpp
int main(){
    int i;
  for (i=1;i<=3;i++)
  { cout<<"role of continue statement\n";
    break;
    cout<<"this cannot be printed";
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  }
return 0;
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int main(){
    int i;
  for (i=1;i<=3;i++)
  { cout<<"role of continue statement\n";
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    cout<<"this cannot be printed";
    cout<<"this also";
  }
return 0;
}
```
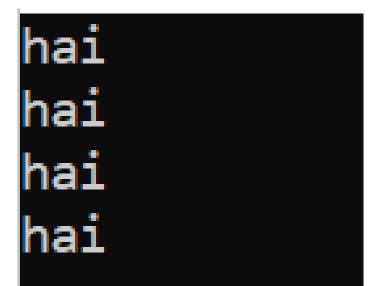
```
role of continue statement
role of continue statement
role of continue statement
```

```cpp
int main(){
    int i;
  for (i=1;i<=3;i++)
  { cout<<"role of continue statement\n";
    break;
    cout<<"this cannot be printed";
    cout<<"this also";
  }
return 0;
}
```

```
role of continue statement
```

```cpp
int main(){
int i;
    if(4>1)
    {
    cout<<"hai\n";
    continue;
    cout<<"welcome\n";
    }
return 0;
}
```

[Error] continue statement
    not within a loop

```cpp
int main(){
int i;
for(i=1;i<=4;i++)
{ if(4>1)
    {
    cout<<"hai\n";
    continue;
    cout<<"welcome\n";
    }
}
    return 0;
}
```

1. Find out the output of the following program.

```cpp
int main()
{ int i, j;
    for (i = 0; i <= 2; i++)
      {
          for (j = 0; j <= 2;)
          {
            cout<<j<<" ";
              break;
          }
        cout<<i<<" ";
      }
    return 0;
}
```

2. Consider the following while loop. How many times will the loop be entered?

```
int  i = 400, j = 70;
while(i > 0 && j > 0)
{
  i = i - j;
  j = j - 5;
}
```

3. In the following program, how many times will the string "nit warangal" get printed?

```cpp
int main()
{ int n=100, i, j;
  for (i = 0; i < n; i++)
  {
    for (j = n-i; j > 0; j--)
        cout<<"nit warangal";
  }
  return 0;
}
```

4. What would be the output of the following program?

```cpp
int main()
{ int a=10;
   switch(a)
   {
     case 10: a = a + 10;
     case 20: a = a + 20;
     case 30: a = a + 30;
     case 40: a = a + 40;
     break;
     case 50: a = a + 50;
     default: a = a + 100;
   }
cout<<a;
return 0;
}
```

5. What would be the output of the following program?

```
int main()
{
  double x = 4.52, y = 4.54;
  if (x = y)
    cout<<"equal"<<endl;
  else
    cout<<"not equal"<<endl;
  if (x == y)
    cout<<"equal"<<endl;
  else
    cout<<"not equal"<<endl;
  return 0;
}
```

```cpp
#include<iostream>
using namespace std;
int main()
{
double x = 4.52, y = 0.0;
if (x=y)
   cout<<"equal"<<endl;
else
   cout<<"not equal"<<endl;
if (x == y)
   cout<<"equal"<<endl;
else
   cout<<"not equal"<<endl;
return 0;
}
```

```cpp
#include<iostream>
using namespace std;
int main()
{
double x = 4.52, y = 0.0;
if (x=y)
   cout<<"equal"<<endl;
else
   cout<<"not equal"<<endl;
if (x == y)
   cout<<"equal"<<endl;
else
   cout<<"not equal"<<endl;
return 0;
}
```

```
not equal
equal
```

6. Find out the value of the following expression.

20%5-13+16%8/4*5+4-8/5*10

7. What would be the output of the following program?

```cpp
int main()
{
 int a,x = 10;
 a = x++ - x++;
 a = a+ x++ + x++;
 cout<<x<<endl;
 cout << a;
 return 0;
}
```

Describe error/find output

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

int main()
{   char sym='abcdef', let;

cout<<"the characters are "<<sym<<endl;
cout<<"enter the above string abcdef \n";
cin>>let;
cout<<"entered characters are "<<let;
return 0;
}
```