**LAB 5**

**Objectives**

Use of do while loop

Use of Nested loops

**Task 1**

1. Write a program that takes character input ultil user press ‘k’. Use do while.

#include<iostream>

using namespace std;

int main()

{

char alpha,k;

do

{

cout<<"Enter alphabet: ";

cin>>alpha;

}

while (alpha!='k');

system ("pause");

return 0;

}

1. Write a program that takes three numbers as input. Print their sum, largest number and smallest number.Ask user “do you want continue press y and n for quit”.Use do while loop

#include<iostream>

using namespace std;

int main()

{

float a,b,c,sum;

char alpha,n;

do

{

cout<<"Enter first number: ";

cin>>a;

cout<<"Enter second number: ";

cin>>b;

cout<<"Enter third number: ";

cin>>c;

cout<<"\n";

sum=a+b+c;

cout<<"Sum of three number is "<<sum<<endl;

cout<<"\n";

{

if ((a<b)&&(a<c))

cout<<a<<" is the smallest number"<<endl;

else if ((b<a)&&(b<c))

cout<<b<<" is the smallest number"<<endl;

else

cout<<c<<" is the smallest number"<<endl;

}

cout<<"\n";

{

if ((a>b)&&(a>c))

cout<<a<<" is the largest number"<<endl;

else if ((b>a)&&(b>c))

cout<<b<<" is the largest number"<<endl;

else

cout<<c<<" is the largest number"<<endl;

}

cout<<"\n\tDo you want to continue? press y/n: ";

cin>>alpha;

cout<<"\n";

}

while (alpha!='n');

system ("pause");

return 0;

}

**Task 2**

Write a program that displays following pattern.



#include<iostream>

using namespace std;

int main()

{

for (int i=0;i<5;i++)

{

for (int i=0;i<5;i++)

{

cout<<" \* ";

}

cout<<endl;

}

system ("pause");

return 0;

}

**Task 3**

Write a program that displays following output.



#include<iostream>

using namespace std;

int main()

{

int n=1;

for (int i=0;i<5;i++)

{

for (int i=0;i<n;i++)

{

cout<<"\*";

}

cout<<endl;

n=n+1;

}

system ("pause");

return 0;

}

**Task 4**

Write a program that displays following output.

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#include<iostream>

using namespace std;

int main()

{

int n=2;

for (int i=0;i<5;i++)

{

for (int i=1;i<n;i++)

{

cout<<i;

}

cout<<endl;

n=n+1;

}

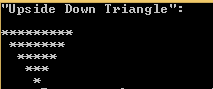
system ("pause");

return 0;

}

**Task 5**

Write a program that displays following output.



#include<iostream>

using namespace std;

int main()

{

int a=6,b=9;

cout<<"\"Upside Down Triangle\":";

cout<<"\n\n";

for (int i=0;i<5;i++)

{

for (int i=0;i<a;i++)

cout<<" ";

{

for (int i=0;i<b;i++)

cout<<"\*";

{

cout<<endl;

b=b-2;

}

a=a+1;

}

}

cout<<"\n";

system ("pause");

return 0;

}