Nested Loop Programming – Pattern Programming

```
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       //for row
       for(i=1;i<=5;i++)
       {
              //for column
              for(j=1;j<=5;j++)
                     cout<<" "<<i;
              cout<<"\n";
       }
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       //for row
       for(i=1;i<=5;i++)
       {
              //for column
              for(j=1;j<=i;j++)
                     cout<<" "<<j;
              cout<<"\n";
       }
```

```
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       //for row (no. of lines)
       for(i=5;i>=1;i--)
       {
              //for column (print values)
              for(j=1;j<=i;j++)
              {
                     cout<<" "<<j;
              cout<<"\n";
       }
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       //for row (no. of lines)
       for(i=5;i>=1;i--)
       {
              //for column (print values)
              for(j=i;j>=1;j--)
                      cout<<" "<<j;
              cout<<"\n";
       }
}
```

```
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j,k=1;
       //for row (no. of lines)
       for(i=1;i<=5;i++)
       {
             //for column (print values)
             for(j=1;j<=i;j++)
              {
                     cout<<" "<<k++;
              cout<<"\n";
       }
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       //for row (no. of lines)
       for(i=1;i<=10;i++)
              //for column (print values)
              for(j=1;j<=10;j++)
                     if(j==10
                                   П
                                         j==1 || i==10 || i==1)
                            cout<<"*";
                     }
                     else
                            cout<<" ";
                     }
              cout<<"\n";
       }
```

```
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       char temp = 'A';
       //for row (no. of lines)
       for(i=1;i<=5;i++)
              //for column (print values)
              for(j=1;j<=i;j++)
                     cout<<" "<<temp;
              cout<<"\n";
       }
/* WAP to show the example of nested for loop - pattern programming */
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       char temp = 'A';
       //for row (no. of lines)
       for(i=1;i<=5;i++)
              //for column (print values)
              for(j=1;j<=i;j++)
                     cout<<" "<<temp;
              temp--;
              cout<<"\n";
       }
```

```
/* WAP to show the example of nested for loop - pattern programming
10
101
1010
10101
*/
#include<iostream.h>
#include<conio.h>
void main()
       int i,j;
       //for row (no. of lines)
       for(i=1;i<=5;i++)
              //for column (print values)
              for(j=1;j<=i;j++)
                     cout<<" "<<j%2;
              cout<<"\n";
       }
/* Triangle Pattern */
#include<iostream.h>
#include<conio.h>
void main()
       int r,s,c,x,num;
       cout<<"Enter the range: ";
       cin>>num;
       for(r=1;num>=r;r++)
              for(s=num-r;s>=1;s--)
                     cout<<" ";
```