```
#include <iostream>
using namespace std;
int main()
{
        int s , i;
        cout<<"Enter range of arrays here : ";</pre>
        cin>>s;
        int array[s];
        for(i=0;i<s;i++){
                 cout<<"Enter value number"<<i+1<<": ";</pre>
                 cin>>array[i];
        }
        cout<<"The number in reverse order are : "<<endl;</pre>
        for(i=s-1;i>=0;i--){
                 cout<<array[i]<<" ";
        }
return 0;
}
```

```
Enter range of arrays here : 6
Enter value number1: 1
Enter value number2: 2
Enter value number3: 3
Enter value number4: 4
Enter value number5: 5
Enter value number6: 6
The number in reverse order are :
6 5 4 3 2 1

Process exited after 6.161 seconds with return value 0
Press any key to continue . . . _
```

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

int main()
{
    int s , i , sum=0;

    cout<<"Enter range of arrays here : ";
    cin>>s;
    int array[s];
    for(i=0;i<s;i++){
        cout<<"Enter value number"<<i+1<<": ";
        cin>>array[i];
        sum+=array[i];
```

```
cout<<"Sum of the elements in this array is : "<<sum;
return 0;
}</pre>
```

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

int main()
{
    int i;
    float sum=0;

int array[10]={1,2,3,4,5,6,7,8,9,10};
```

```
for(i=0;i<10;i++){
             sum+=array[i];
      }
      cout<<"average of the elements in this array is : "<<sum/10;</pre>
return 0;
}
 ■ D:\1st sm Programing fundamentals\lab 7 p.f\Question number 03.exe
average of the elements in this array is : 5.5
Process exited after 0.1066 seconds with return value 0
Press any key to continue \dots
Question number 04
#include <iostream>
```

```
#Include <lostream>
using namespace std;

int main()
{
    int i , s;

    cout<<"Enter the array range here : ";
    cin>>s;

int array1[s] , array2[s];
```

```
for(i=0;i<s;i++){
                cout<<"Enter value "<<i+1<<" Here: ";
                cin>>array1[i];
        }
        for(i=0;i<s;i++){
                array2[i]=array1[i];
        }
        cout<<"The value of the first arrays are "<<endl;</pre>
        for(i=0;i<s;i++){
                cout<<array1[i]<<" ";
        }
        cout<<endl<<"The value of the second arrays are "<<endl;</pre>
        for(i=0;i<s;i++){
                cout<<array2[i]<<" ";
        }
return 0;
}
```

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

int main()
{
    int i , s;

    cout<<"Enter the array range here : ";
    cin>>s;

int array[s];

for(i=0;i<s;i++){</pre>
```

```
cin>>array[i];
      }
      cout<<"The EVEN numbers are : "<<endl;</pre>
      for(i=0;i<s;i++){
            if(array[i]%2==0){
                  cout<<array[i]<<" ";
            }
      }
return 0;
}
D:\1st sm Programing fundamentals\lab 7 p.f\Question number 05.exe
Enter the array range here : 6
Enter value 1 Here : 34
Enter value 2 Here : 12
Enter value 3 Here :
                         23
Enter value 4 Here : 56
Enter value 5 Here : 67
Enter value 6 Here: 66
The EVEN numbers are :
34 12 56 66
Process exited after 13.12 seconds with return value 0
Press any key to continue \dots
```

cout<<"Enter value "<<i+1<<" Here: ";

#### Question number 06

#include <iostream>

```
using namespace std;
int main()
{
        int i , s;
        cout<<"Enter the array range here : ";</pre>
        cin>>s;
        int array[s];
        for(i=0;i<s;i++){
                cout<<"Enter value "<<i+1<<" Here: ";
                cin>>array[i];
        }
        cout<<"The value on ODD indicies are : "<<endl;</pre>
        for(i=0;i<s;i++){
                if(i%2!=0){
                         cout<<array[i]<<" ";
                }
        }
return 0;
}
```

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

int main()
{
    int i , s , c=1;
    cout<<"Enter the array range here : ";
    cin>>s;
    int array1[s] , array2[s];

    for(i=0;i<s;i++){
        cout<<"Enter value "<<i+1<<" Here : ";
        cin>>array1[i];
    }
}
```

```
Enter the array range here: 4
Enter value 1 Here: 12
Enter value 2 Here: 45
Enter value 3 Here: 54
Enter value 4 Here: 23
The value of the first arrays are
12 45 54 23
The value of the second arrays are
23 54 45 12

Process exited after 9.924 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
    int i;
    int array1[5]={1,2,3,4,5};
    int array2[5]={1,2,3,4,5};
    int array3[5];

    cout<<"The values of first array are : "<<endl;
    for(i=0;i<5;i++){</pre>
```

```
cout<<array1[i]<<" ";
        }
        cout<<endl;
        cout<<"The values of second array are : "<<endl;</pre>
        for(i=0;i<5;i++){
                cout<<array2[i]<<" ";
        }
        for(i=0;i<5;i++){
                array3[i]=array2[i]+array1[i];
        }
        cout<<endl;
        cout<<"The values of third array are : "<<endl;</pre>
        for(i=0;i<5;i++){
                cout<<array3[i]<<" ";
        }
return 0;
}
```

```
The values of first array are:
1 2 3 4 5
The values of second array are:
1 2 3 4 5
The values of third array are:
2 4 6 8 10

Process exited after 0.09935 seconds with return value 0
Press any key to continue . . . _
```

#include <iostream>

```
using namespace std;

int main()
{
    int count=0;
    int array1[5]={1,2,3,4,5};
    int array2[4]={6,7,8,9};
    int array3[9];

cout<<"Value of first array are : "<<endl;</pre>
```

```
for(int i=0;i<5;i++){
        cout<<array1[i]<<" ";
}
cout<<endl;
cout<<"Value of second array are : "<<endl;</pre>
for(int i=0;i<4;i++){
        cout<<array2[i]<<" ";
}
        for(int i=0;i<5;i++){
                 array3[count]=array1[i];
                 count++;
        }
        for(int i=0;i<4;i++){
                 array3[count]=array2[i];
                 count++;
}
cout<<endl;
cout<<"Value of third array are : "<<endl;</pre>
for(int i=0; i<9; i++)
{
        cout<<array3[i]<<" ";
}
```

```
return 0;
```

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

int main()
{
    int i , student_no=0;

    cout<<"Enter number of students here : ";
    cin>>student_no;

string student_name[student_no];
    int programming[student_no];
```

```
int maths[student_no];
int english[student_no];
int ps[student_no];
float obtained, percentage;
char grade;
for( i=0 ; i<student_no ;i++){</pre>
        cout<<"Enter student "<<i+1<<" name here : ";</pre>
        cin>>student_name[i];
        cout<<"Enter student "<<i+1<<" marks for programming fundamentals here : ";</pre>
        cin>>programming[i];
        cout<<"Enter student "<<i+1<<" marks for maths here : ";</pre>
        cin>>maths[i];
        cout<<"Enter student "<<i+1<<" marks for english here: ";
        cin>>english[i];
        cout<<"Enter student "<<i+1<<" marks for ps here : ";</pre>
        cin>>ps[i];
        cout<<endl;
}
cout<<endl<<endl;
for( i=0 ; i<student_no ;i++){</pre>
        obtained=programming[i]+maths[i]+english[i]+ps[i];
        percentage=(obtained/400)*100;
        if(percentage>=80&&percentage<=100){
                grade='A';
        }
```

return 0;

}

```
D:\1st sm Programing fundamentals\lab 7 p.f\Question number 10.exe
Enter number of students here : 2
Enter student 1 name here : Siraj
Enter student 1 marks for programming fundamentals here : 67
Enter student 1 marks for maths here : 89
Enter student 1 marks for english here : 99
Enter student 1 marks for ps here : 89
Enter student 2 name here : Ahmed
Enter student 2 marks for programming fundamentals here : 78
Enter student 2 marks for maths here : 89
Enter student 2 marks for english here : 98
Enter student 2 marks for ps here : 66
Siraj
                89
                        99
                                 89
                                         344
                                                 86
                                                          Α
                                                 82.75
Ahmed
        78
                89
                        98
                                 66
                                         331
Process exited after 26.91 seconds with return value 0
Press any key to continue . . .
```

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

int main()
{
    int s , i , j;
    cout<<"Enter the array range : ";
    cin>>s;
    int array[s];
    for(i=0; i<s; i++){
        cout<<"Enter value "<<i+1<<" ";
        cin>>array[i];
```

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

int main()
{
    int s , i , j;
    cout<<"Enter the array range : ";
    cin>>s;
    int array[s];
    for(i=0; i<s; i++){
        cout<<"Enter value "<<i+1<<" ";
        cin>>array[i];
```

```
}
                 for(i=0; i<s; i++){
                          for( j=i+1;j<s;j++){
                                    if(array[i] > array[j]) \{\\
                                             int c;
                                             c=array[i];
                                             array[i]=array[j];
                                             array[j]=c;
                                   }
                          }
                 }
        cout<<"The largest value is : "<<array[s-1];</pre>
return 0;
```

}

```
#include <iostream>
using namespace std;
int main()
     int s, i, sea;
      bool check=false;
      cout<<"Enter the array range : ";</pre>
      cin>>s;
     int array[s];
     for(i=0; i < s; i++){
            cout<<"Enter value "<<i+1<<": ";
           cin>>array[i];
      }
      cout<<"Enter the value you wanna search from this array : ";</pre>
```

```
cin>>sea;
     for(i=0; i<s; i++){
            if(sea==array[i]){
            check=true;
            break;}
     if(check==true)
      cout<<array[i]<<" is present at the "<<i+1<<" index ";</pre>
      else
      cout<<sea<<" is not present in this array here ";</pre>
return 0;
```