



Programming for Problem Solving (Exp 6 - 1)

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Program: B. Tech Data Science (1st)	Batch: J1
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Task 1:

a.

```
int marks[10];
```

b.

```
float avg_rating[50];
```

c.

```
char marks[10];
```

Task 2:

a.

```
85
```

b.

```
P
```

Task 3:

a.

```
40
```

b.

```
Garbage Values (Sometimes 0)
```

Task 4:

n should be defined before creating the array

Task 5:

221

Task 6:

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

int main() {
    int size_array;
    cout << "Enter the number of elements: ";
    cin >> size_array;
    int elements[size_array];
    cout << endl;
    for(int i; i < size_array; i++) {
        cout << "\nEnter the value (" << i+1 << "): ";
        cin >> elements[i];
    }
    int el_search, no_count, index;
    cout << "\n\nEnter the element to be searched: ";
    cin >> el_search;
    bool found;
    for(int i; i < size_array; i++) {
        if(el_search == elements[i]) {
```

```
        found = true;
        index = i;
        no_count++;
    }
}
if(found) {
    cout << "\n\nElement found! (At Index:" << index << ")\nNumber of
times: " << no_count << "\n";
}
else {
    cout << "\n\nElement not found!\n";
}

return 0;
}
```

Homework Questions:

1. What will be the output of the program?

```
#include<iostream>
int main()
{   int arr[] = { 1, 2, 3, 4, 5}, a, b=0;
    for(a=0;a<5;++a)
        b+=arr[a];
    cout<< b;
}
```

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<p>2. What will be the output of the program?</p> <pre>#include<iostream> void main() { int arr[5] = {4, 1, 2, 20, 5}; int a, b=0; for(a=0;a<5;a++) if (arr[a]%2) b+=arr[a]; cout<< b; }</pre>	<p style="text-align: center;">6</p>
<p>3. What will be the output of the program?</p> <pre>int main() { int arr[5], i=0; while(i<5) arr[i]=++i; for(i=0; i<5; i++) cout<<arr[i]; }</pre>	<p style="text-align: center;">01234</p>