

NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY

PROGRAMMING FUNDAMENTALS LAB TASK # 7

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<u>Q 1:</u>

```
#include <iostream>
using namespace std;
int main() {
   int i=0;
   int arr[10];
   for (int k = 0; k < 10; ++k) {
      cout<<"Enter a number:";
      cin>>arr[k];
   }
   while (i<10) {
      cout<<arr[i]<<endl;
      i++;
   }
   return 0;
}</pre>
```

Q1 (results):

```
Cmain.cpp ×

i

5

6

8

9

4

3

7

10

8

9

Process finished with exit code 0
```

Q 2:

```
#include <iostream>
using namespace std;
int main() {
   int sum=0, product=1;
   int arr[5];
   for (int k = 0; k < 5; ++k) {
      cout<<"Enter a number:";
      cin>>arr[k];
   }
  for (int j = 0; j < 5; ++j) {
      sum=sum+arr[j];
      product=product*arr[j];
   }
   cout<<"The sum = "<<sum<<endl;
   cout<<"The product =
"<<pre>"<<pre>"<<pre>product<<endl;
   return 0;
   }</pre>
```

Q 2 (results):

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

int main() {
    int sum=0. product=1:
    @main.cpp ×

    ::

C:\papers\main.exe
Enter a number:1
Enter a number:2
Enter a number:4
Enter a number:6
The sum = 15
The product = 120
```

Q 3:

```
#include <iostream>
using namespace std;
int main() {
   int r = 5, c = 5;
    char arr[r];
    for (int k = 0; k < 5; ++k) {
        arr[k] = ' ';
    if (r % 2 != 0 and c % 2 != 0) {
i++) {
            for (int j = 0; j < c; j++)
                arr[c / 2 - i] = '*';
                cout << arr[j] << endl;</pre>
        cout << " " << endl;
    for (int i = r/2; i < r; i++) {
        for (int j = 0; j < c; j++) {
            if ((j <= (i-1)-c/2) or
(j>=c/2+(c-1))
                cout<<" ";
            }else{
                cout << " * ";
```

```
}
return 0;
}
```