DATA STRUCTURES AND ALGORITHMS

WEEK ONE LABS

GROUP 3

1)

i)

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

int main()
{
        char a,b,c,d;
        a=300;
        b=-2;
        c=+200;
        d=-150;
        return 0;
}
```

Overflow for char a

Overflow for c

Underflow for d

 b is correct

ii)

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

int main()
```

```
{
        short a,b,c,d;

        a=72550;

        b=-3;

        c=+42255;

        d=35450;

        return 0;
}
```

Overflow a

Overflow c

Underflow d

 b is correct

iii)

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


        int a,b,c,d;

        a=5000000000;

        b=-2;

        c=+5447483645;

        d=-3500000000;

        return 0;
}
```

Overflow a

Overflow c

Underflow d

 b is correct

2)

5

10

2

4

6

8

10

 Printarray displays firstarray,2 as element 5 and 10

first array contain elements 5, 10 and 15 but output 5 and 10

In the first array we initialized 3 elements but the code access only the first 2

In the second array we initialized 5 elements and the code accesses all the 5