

Name:- Shiraz Khan Bangash

ID:- 14539

Paper:- programming fundamental (Lab)

Teacher:- Dr Fazal-e-Malik

Q1)

```
#include <bits/stdc++.h>
using namespace std;

float findArea(float a, float b, float c)
{
    if (a < 0 || b < 0 || c < 0 ||
        (a + b <= c) || a + c <= b ||
        b + c <= a)
    {
        cout << "Not a valid";
        exit(0);
    }
    float s = (a + b + c) / 2;
    return sqrt(s * (s - a) *
                (s - b) * (s - c));
}
```

```
int main()
{
    float a = 3.0;
    float b = 4.0;
    float c = 4.0;
    cout << "Area is" << findArea(a, b, c);
    return 0;
}
```

output  
Area is 6

Q2)

2

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

int main()
{
    int stu;

    cout << "Enter the number";
    cin >> stu;

    if (stu >= 60)
        cout << "1st division";

    else if (stu >= 50 && stu <= 59)
        cout << "2nd division";

    else if (stu >= 40 && stu <= 49)
        cout << "3rd division";

    else if (stu < 40)
        cout << "Fail";

    return 0;
}
```

Q3)

3

```
#include <iostream>
using namespace std;
int main()
{
    int yard, feet, inch;
    cout << "Enter feet:";
    cin >> feet;
    yard = in feet / 3
    inches = feet / 12
```

```
cout << "Yard = " << yard << "In Inches  
= " << inches << endl;
```

```
return 0;
```

Q4)

(4)

```
#include <iostream>
using namespace std;
int main()
{
    int sum;

    cout << "find the sum of the
            2+4+6+8+10";

    sum = 2+4+6+8+10;

    cout << "The sum is = " << sum;

    return 0;
}
```

Q5

(5)

```
#include <studio.h>
#include < stud stdlib.h>

main() {
    double hourly_rate;
    double hours;
    double gross_pay;
    double Taxcut;

    print cout << "please in put hourly rate";
    cout << "please input hours worked";
    if (hours <= 40); {
        cout << << gross gross_pay = hours *
            hourly_rate;
    }
    else
    {
        gross_pay = (40 * hourly_rate) + (hours - 40) *
            (hourly_rate * 1.5);
    }
    system("pause");
}
```