

Assignment 2: Introduction To Programming

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I. Write a program to read the input and print the output as mentioned below.

Input: 25

1.1

Output: 25

1.2. Input: 5.3267

Output: 5.3267

1.3. Input: 5.3267

Output: 5.32

1.4. Input: 5664.57567456

Output: 5664.57

1.5. Input: 35345364

Output: 35345364 * 35345364

I .6. Input & Output: Your name

1.7. Input & Output: S. V. National Institute of Technology, Surat

Answer:

Assignment 2: Introduction to Programming

Q.1 write a Program to read input & Print output as mentioned.

Q.1.1 Input: 25 output: 25

```
=> #include <stdio.h>
int main() {
    int a;
    printf("Enter a number");
    scanf("%d", &a);
    printf("The entered number is %d", a);
}
```

Q.1.2 Input: 5.3267 output: 5.3267

```
=> #include <stdio.h>
int main() {
    float a;
    printf("Enter a number");
    scanf("%f", &a);
    printf("The entered number is %f", a);
}
```

Q.1.3 Input: 5.3267 output: 5.32

```
=> #include <stdio.h>
int main() {
    float a;
    printf("Enter a number");
    scanf("%f", &a);
    printf("The entered number is %.2f", a);
}
```

[1.4] Input : 5664.57567456

output: 5664.57

```
=> #include <stdio.h>
int main() {
    float a;
    printf("Enter a number ");
    scanf("%f", &a);
    printf("The entered no. is %.2f", a);
}
```

[1.5] Input : 353 45364

output: 35345364 * 35345364

```
=> #include <stdio.h>
int main() {
    int a;
    printf("Enter a no.");
    scanf("%d", &a);
    printf("%.d*%.d", a);
}
```

[1.6] Input & output = your name

```
=> #include <stdio.h>
int main() {
    char a, b, c, d, e, f, g;
    scanf("%c%c%c%c%c%c", &a, &b, &c, &d, &e, &f, &g);
    printf("My name is %c%c%c%c%c%c%c", a, b, c, d, e, f, g);
}
```

[1.7] Input and output :

S.V. National Institute of Technology,
Surat.

```

=> #include <stdio.h>
    int main () {
        int char college[20];
        printf("Enter the name of your college");
        scanf("%s", &college);
        printf(" I study
        printf(" My college is %s", college);
    }
  
```

2. Write a program to compute the area of a circle.

Answer:

Q.[2] write a program to compute the area
of a circle

```

=> #include <stdio.h>
    int main () {
        float radius, area;
        printf("Enter radius of circle");
        scanf("%f", &radius);
        area = 3.14 * radius * radius;
        printf("The area of circle is %f", area);
    }
  
```

3. Write a program to calculate the simple interest.

Answer:

Q[3] write a program to Calculate the Simple Interest.

```
=> #include <stdio.h>
int main() {
    int no, hoi, time;
    scanf printf("Enter Principal Value");
    scanf("%d", &no);
```

```
    printf("Enter rate of interest");
    scanf("%d", &hoi);
    printf("Enter number of years (time)");
    scanf("%d", &time);
    int Simple-int;
    Simple-int = no * hoi * t / 100;
    printf("Simple interest is %d", Simple-int);
```

}

4. Write a program that converts Fahrenheit to Celsius.

Answer:

Q[4] write a program that converts Fahrenheit to Celsius

```
=> #include <stdio.h>
int main() {
    float Far, Cel;
    printf("Enter temperature in Fahrenheit");
    scanf("%f", &Far);
    Cel = (Far - 32) * (5/9);
    printf("The temperature in Celsius is %f", Cel);
```

}

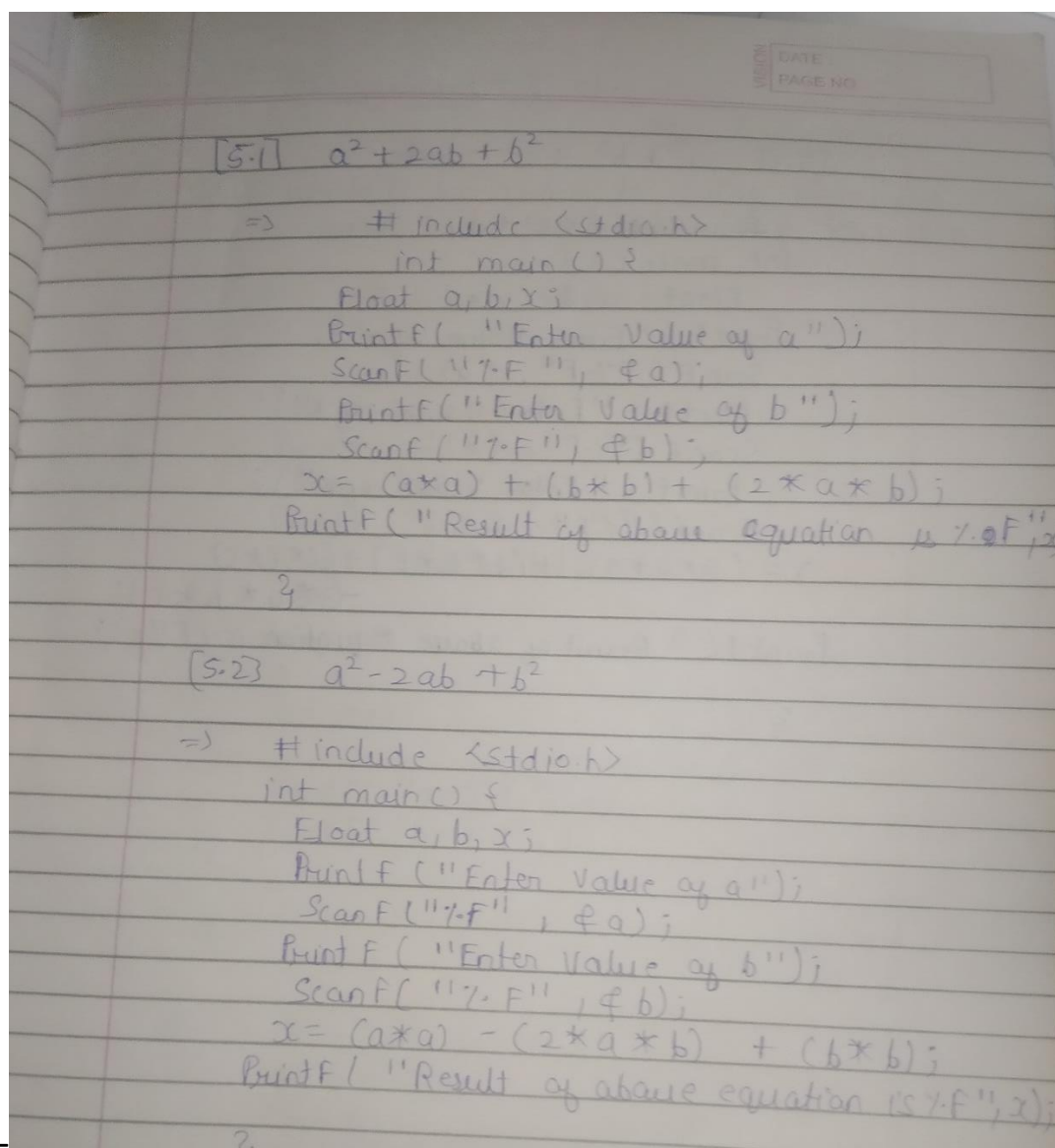
5. Write a program to solve the following equations. Read the values of a, b, and c from the keyboard ,

5.1 $a^2 + 2ab + b^2$

5.2 $a^2 - 2ab + b^2$

5.3. $a^3 + b^3 + c^3 - 3abc$

Answer:



$$[5.3] \quad a^3 + b^3 + c^3 - 3abc$$

=> #include <stdio.h>

int main () {

Float a, b, c, x;

Printf ("Enter Value of a");

scanf ("%f", &a);

Printf ("Enter Value of b");

scanf ("%f", &b);

Printf ("Enter Value of c");

scanf ("%f", &c);

x = (a*a*a) + (b*b*b) + (c*c*c)

- (3*a*b*c);

Printf ("Result of above equation is %f", x);

}