Konkshit Prakash Dhajare
WP/Roll no: 068 . CC Sect^n

Page No.
Date : / /

1 Area of Δ

```
#include <stdio.h>
#include <math.h>
int math ()
{
  double a, b, c, s, area;

printf ( " Enter sides of a triangle \n");
scanf ( " %lf %lf %lf ", &a, &b, &c);

s = (a+b+c) ; // semiperemth
      2

area = sqrt ( s*(s-a)*(s-b)*(s-c) );

printf ( " Area of the triangle = %.2lf \n", area);
return 0;
}
```

Kankshit USN 068
CL

Page No.
Date: / /

② Quadratic Eq

```
#include <stdio.h>
#include <math.h> /* used for sqrt() */

int main()
{
    float a, b, c;
    float root1, root2, imaginary
    float discrimant;

    printf("Enter values of a, b, c of quadratic
            equation (ax^2 + bx + c): ");
    scanf("%of %of %of", &a, &b, &c);
    /* find the discrimind of the equation */
    discrimind = (b*b) - (4*a*c)
    /* Find the nature of discrimind */
    if (discrimind > 0)

    {
    root1 = (-b + sqrt(discrimd)) / (2*a);
    root2 = (-b - sqrt(discrimd)) / (2*a);

    printf("Two distinct and real roots exsh: %.2f
            and %0.2f", root1, root2);
    }
    else if (discrimant == 0)
    {
    root1 = root2 = -b / (2*a);
```

```
printf ("Two equal and real roots each : %.2f
and %.2f", root1, root2);
}
else if (discriminant < 0)
{ root1 = root2 = -b / (2*a);
imaginary = sqrt (-discriminant) / (2*a);

printf ("Two distinct complex roots each : %.2f
+ i %.2f
and %.2f - i %.2f
root1, imagnary, root2, imag
imag);

}

return 0;
}
```

Kanishk USN 068

Page No.
Date : / /

```
/* average of three */
#include <stdio.h>
#include <conio.h>
void main()
{
    int n1, n2, n3;
    float avg;
    clrscr();
    printf("\n Enter Three Numbers : ");
    scanf("%d %d %d", &n1, &n2, &n3);
    avg = (n1+n2+n3/3)
    printf("\n AVERAGE : %0.2f", avg);
    getch();
}
```

Kantishi USN 06Y

Page No.
Date : / /

(9) /* to find the smallest of 3 numbers */

```
#include <stdio.h>
#include <conio.h>
void main()
{
  int a, b, c, sml;
  sml = 0;
  printf ("enter 3 numbers \n");
  scanf ("%d %d %d", &a, &b, &c);
  if (a<=b)
  {
    if (b<=c)
      sml = a;
    else if (c<=a)
      sml=c;
  }
else
{
  if (c>=b)
    sml=b;
  else
    sml=c;
}
printf ("the smallest number is %d", sml);
getch();
}
```