Monday PSG College of Arts and Science CAutonomous)

The CA Test 2021

C- Programming Rahul. Gr.

1) Write a program to solve a quadratic equation for all types of roots

Aim:

to create a program to solve a quadratic equation for all type of roots.

## Algorithm:

Step 1: Start the program

8tep 2: Declare the variables a, b, c, determinant, root 2, root 2

steps: If beterminant 70, roots are real

Step 4: If determinant = 0, roots are real and equal

Steps: If determinant co, voots are imaginary

step 6: End the program

Result:

The Coding is compiled and output is venified

2) Write a program to create a structure of student's worksheet.

Aim:

To create a program to execte a structure of student's worksheet.

Algorithm:

Step I: Start the program

Step 2: pedare the variables

step 3: Inter first name for roll number 1

Step4: Enter with marks for roll number 1

steps: Enter first name for roll number e

step 6: Enter marks for roll number 2

step 7: Generate mc worksheet

Step 8: End the program

Result:

The coding is compiled and output is renified

## Quadratic equation:

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                                                                                                                                                            Language C
4
           #include <math.h>
           int main()
               int a,b,c,determinant,root1,root2;
printf("enter the values of a,b,c\n");
scanf("%d%d%d",&a,&b,&c);
determinant=b*b-4*a*c;
if (determinant>0)
                     root1=(-b+sqr*(determinant)/(2*a));
root2=(-b-sqr*(determinant)/(2*a));
printf("the roots are real and they are %d and %d",root1,root2);
               }
if(determinant=0)
{
                    root1=root2=(-b/(2*a));
printf("the roots are %d and %d",root1,root2);
              }
if (determinant<0)
                     printf("the roots are _Imaginary");
     enter the values of a,b,c
     -11
     the roots are real and they are 12 and 9
       .Program finished with exit code 0
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## Student worksheet: