

```
name = input(['Animbitika the ' ...  
    'latest slogan: '], "s");  
disp('Slogan yambatato: ')
```

Slogan yambatato:

```
disp(name)
```

Hambatari ya wakembetenya.

```
name = input("Jina lako: ", "s");  
age = input("Tarehe ya kuzaliwa " + ...  
    "'dd/mm/yyyy'", "s");
```

```
yearofbirth = split(age, "/");  
yearofBith = str2double(yearofbirth);  
current_age_matrix = 2022-yearofBith;  
current_age = current_age_matrix(3,:)
```

current\_age = 21

```
disp(current_age)
```

21

```
if (current_age <= 18)  
    %disp("Sorry, you can't drink  
    % and live");  
    fprintf("Mr/Miss %s, Huwezi" + ...  
        " tumia vileo", name);  
else  
    fprintf(['Mr/Miss %s, Unaweza' ...  
        ' tumia vileo. Enda container'], name);  
end
```

Mr/Miss Mkuu, Unaweza tumia vileo. Enda container

```
fprintf("\nYour age : %d", ...  
    current_age);
```

Your age : 21

```
name = input("Jina lako : ", "s");  
input_score = input("Alama zako: ", "s");  
  
score = str2double(input_score)
```

score = 100

```

if(score < 0 || score > 100)
    disp("Invalid marks")
else
    if(score >= 70)
        disp("Vyema Kabisa: Gredi yako ni A");
    elseif(score >=60 && score <70)
        disp("Vyema Kabisa: Gredi yako ni B");
    elseif(score >= 50 && score < 60)
        disp("Vyema : Gredi yako ni C");
    elseif(score >=40 && score < 50)
        disp("Tia bidii: Gredi yako ni D");
    else
        disp("Umeshindwa: Gredi yako ni E");
    end
end
end

```

Vyema Kabisa: Gredi yako ni A

```

a = input("Enter the value of a: ");
b = input("Enter the value of b: ");
c = input("Enter the value of c: ");

discriminant = (b^2 - (4 * a * c));

x1 = (-b + sqrt(discriminant)) / (2 * a);
x2 = (-b - sqrt(discriminant)) / (2 * a);
%disp(discriminant)

if (discriminant < 0)
    fprintf("The roots are dinstinct and complex in nature");
    %fprintf("The roots are: ");
    %disp(x1);
    fprintf("The roots is: %d\n", x1,x2);
    %disp(x2);

elseif (discriminant == 0)
    fprintf("The roots are real and equal");
    %disp(x1);
    fprintf("The roots is: %d\n", x1,x2);
    %disp(x2);

else
    fprintf("The roots are distinct and real in nature");
    %disp(x1);
    fprintf("The roots is: %d\n", x1,x2);
    %disp(x2);

end

```

The roots are dinstinct and complex in nature

The roots is: -2  
The roots is: -2

```
%fprintf("%dx^2 + ( %dx) + (%d) = 0", a,b,c);
```

```
a = input('Enter the value of a: ');  
b = input('Enter the value of b: ');  
c = input('Enter the value of c: ');  
  
d = (b^2 - (4*a*c));  
disp(d);
```

-60

```
if (d==0 )  
    fprintf("The roots are real and equal");  
else  
    if isreal(d)  
        fprintf("The roots are complex");  
    else  
        fprintf("The roots are real and distinct")  
    end  
end
```

The roots are complex

```
x1 = (-b+sqrt(d))/2;  
x2 = (-b-sqrt(d))/2;  
disp('The discriminant is : ')
```

The discriminant is :

```
disp(d)
```

-60

```
disp("The roots are: ")
```

The roots are:

```
disp(x1)
```

-1.0000 + 3.8730i

```
disp(x2)
```

-1.0000 - 3.8730i

```
name = input("Jina lako: ","s");  
year_born = input("Mwaka wa kuzaliwa: ");  
  
age = 2022 - year_born;
```

```
if (age > 18)
    fprintf("Bi/Bw ")
    fprintf("Unaeza tumia vileo. " + ...
        "Fika container ");
else
    fprintf("Huwezi kunywa huku, " + ...
        "Toka container!")
end
```

Huwezi kunywa huku, Toka container!