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# Question 01

## Code

clc

clear all

first=0;

second=1;

count=2;

fib=[first second];

while (count<20)

fib=[fib fib(count)+fib(count-1)]

count=count+1;

end

## Output

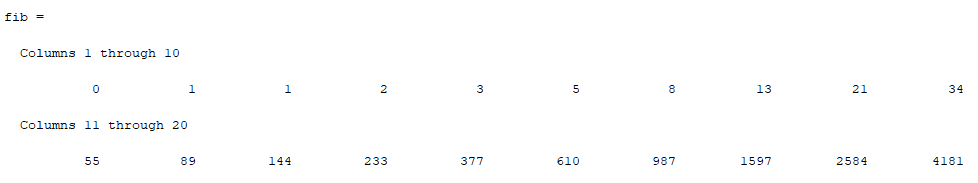


Figure : Q01 Output

# Question 02

## Code

clc

clear all

x=0;

sum\_=0;

while (x<=5)

sum\_=sum\_+x;

x=x+1;

end

sum\_

x

## Output

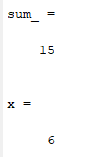


Figure : Q02 Output

# Question 03

## Code

clc

clear all

while (1)

x=input('Enter Postive value of x :');

if (x<0)

disp('You Enter the Negtive Number ')

elseif (x>0)

break

end

end

f=(3\*cos(x)-sin(x))\*exp(-0.2\*x)

## Output

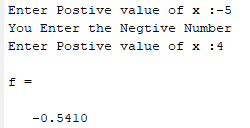


Figure : Q03 Output

# Question 04

## Code

clc

clear all

a=input('Enter the a :');

b=input('Enter the b :');

c=input('Enter the c :');

D=b^2 - 4\*a\*c;

Root1=(-b+sqrt(D))/(2\*a);

Root2=(-b-sqrt(D))/(2\*a);

if (D==0)

disp('The equation has one roots ')

Root1

elseif (D>0)

disp('The equation has two roots ')

Root1

Root2

elseif (D<0)

disp('The equation has no real roots ')

end

## Output A

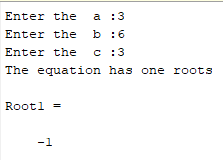


Figure : Q04 A

## Output B

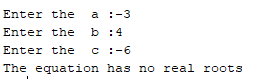


Figure : A04 B

## Output C

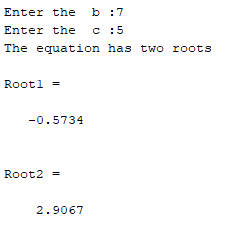


Figure : Q04 C

# Question 05

## Code

clc

clear all

r=randi([-10 10],1,20)

sum\_=0;

for i=1:length(r)

if(r(i)>0)

sum\_=sum\_ + r(i);

end

end

sum\_

## Output

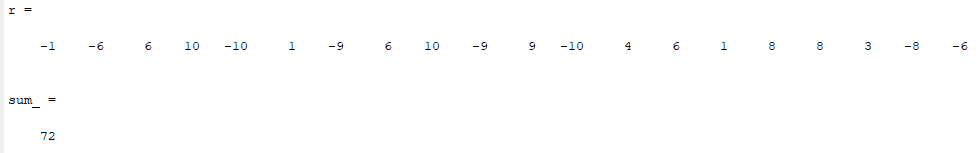


Figure : Q05 Output