

ASSIGNMENT (15/11/2021)

Q.1) Write a program to generate the three-address code for the following code of 'if-else', 'for-loop', and 'while-loop'.

if-else code:

```
A = 1;  
B = 2;  
if (A<B)  
    return 1;  
else  
    return 0;
```

for-loop code:

```
a=3;  
b=4;  
n=6;  
for(i=0;i<n;i++){  
    a=b+1;  
    a=a*a;  
}  
c=a;
```

while-loop code:

```
c = 0;  
a = 1;  
b = 2;  
while(a < b){  
    c = 1;  
}  
c = 0;
```