

1. Take a look at the following program.

Circle each identifier, underline each expression, enclose into a box/rectangular the body of the for loop.

```
def main():
    a, b = 10, 2
    c = 10*a + a/b
    for i in range(4):
        c = c/5
        print(c)
main()
```

2. Show the output of the following code fragments:

a)

```
for i in [1,2,3,4,5]:
    print(i*i)
```

b)

```
word = "Abrakadabra"
for char in word:
    print(char, " ", end="")
```

c)

```
def loop1():
    s = 0
    for i in range(100):
        s = s + (-1)**i
    print("sum=", s)
```

Output for a)

1
4
9
16
25

Output for b)

A b r a k a d a b r a

Output for c)

sum = 0



3. I am writing a program that will use a *for loop* to add 10 numbers from the list [5,4,2,3,1,7,8,9,6,0]
Use the blocks below to organize them into a program that does exactly that!

```
myList = [5,4,2,3,1,7,8,9,6,0]
```

```
print("The sum is ",sum_)
```

```
sum_ = 0
```

```
for i in range(10):  
    sum_ = sum_ + i
```

```
for i in range(10):  
    sum_ = sum_ + myList[i]
```

```
for item in myList:  
    sum_ = sum_ + item
```

Write the code here:

Option 1:

```
MyList = [5,4,2,3,1,7,8,9,6,0]  
sum_ = 0  
for i in range(10):  
    sum_ = sum_ + myList[i]  
print("The sum is ",sum_)
```

Option 2:

```
MyList = [5,4,2,3,1,7,8,9,6,0]  
sum_ = 0  
for item in myList:  
    sum_ = sum_ + item  
print("The sum is ",sum_)
```