

# QUIZ - 01

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BSE-2020F-022

**SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY SOFTWARE  
ENGINEERING DEPARTMENT**

**Fall 2020F**

**Programming Fundamentals (SWE-102) Quiz  
# 1**

**Semester: I**

**Batch: 2020**

**Max Points: 05**

**Instructions:**

- Attempt all questions
- Do not copy or cheat from anyone, make your own effort. If any assignment found copied it will straight away be rejected.
- Take the help from internet or any other online sources is allowed. If the data has been taken from any online source, then please organize it properly, do not copy and paste exactly.
- There is no maximum page limit.
- Assignment should be in MS Word document. The Word file should be submitted by converting it to a single PDF file.
- Mention your full name and roll number on the first / front page. The page numbers must be mentioned at the right bottom corner in the whole assignment.
- The maximum font size for text is 12 and for heading is 14. The font could be Arial or the Time New Roman.

**Question 1**

**[2 points]**

Q: Write a program to calculate the quadratic equation.

Let; a=2 , b=6 c=3

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

**CODE:**

```
#Abdul Moiz Chishti
```

```
#BSE-2020F-022
```

```
a=2
```

```
b=6
```

```
c=3
```

```
d=((b**2)-(4*a*c))
```

```
e=(d**0.5)

#for positive
sol1=(-b+e)/(2*a)

#for negative
sol2=(-b-e)/(2*a)

print("the positive root is=",sol1)
print("the negative root is=",sol2)
```

### **OUTPUT:**

```
>>> %Run 'quadretic eq.py'

the positive root is= -0.6339745962155614
the negative root is= -2.3660254037844384
```

### **Question 2**

**[3 points]**

Write a program to count and display your name in capital as well small letter using the concept of looping and input function .

### **CODE:**

```
# Abdul Moiz Chishti
# BSE-2020F-022
name=input("Enter your Name:")
n=name.lower()
n2=name.upper()
print(n)
print(n2)
c=0

for i in name:
    c=c+1

print("total number of alphabets=",c)
```

### **OUTPUT:**

```
>>> %Run 'counting name.py'

Enter your Name:Abdul Moiz Chishti
abdul moiz chishti
ABDUL MOIZ CHISHTI
total number of alphabets= 18

>>>
```

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