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**GROUP-4** 

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Q1)

Code:

```
main.py > ...

1     x=input("enter a number:")
2     if int(x)%2==0:
3         print("even")
4     else:
5         print("odd")
6
7
```

**Output:** 

```
enter a number:5 odd
```

Q2)

Code:

```
main.py > ...

1    for i in range(2,11):
2     print (1/i)
3
```

**Output:** 

# Q3)

# Code:

```
main.py > ...

1  i=int(input("enter a number: "))
2  while i>=0:
3    print(i)
4    i=i-1
5
6
```

# **Output:**

```
enter a number: 4
4
3
2
1
0
```

Q4)

```
main.py > ...

1  import datetime
2  now=datetime.datetime.now()
3  dt_string = now.strftime(" %c")
4  print(dt_string)
5
```

# Q5)

#### Code:

```
main.py > ...

1  a=int(input("enter number 1: "))
2  b=int(input("enter number 2: "))
3  c=int(input("enter number 3: "))
4  v if a>b and a>c:
5  print(a,"is the greatest number")
6  velif b>a and b>c:
7  print(b,"is the greatest number")
8  velse:
9  print(c,"is the greatest number")
10
```

## **Output:**

```
enter number 1: 34
enter number 2: 23
enter number 3: 43
43 is the greatest number
```

Q6)

```
1 a=float(input("enter the temperature 1 in celsius: "))
2 b=float(input("enter the temperature 2 in farenheit: "))
3
4 print("the temprature in 1 farenheit is: ",(a*9/5)+32)
5 print("the temprature in 2 celsius is: ",(b-32)*5/9)
6
```

```
enter the temperature 1 in celsius: 34
enter the temperature 2 in farenheit: 98
the temprature in 1 farenheit is: 93.2
the temprature in 2 celsius is: 36.66666666666666
```

## Q7)

#### Code:

## **Output:**

```
✓ Run
☐ Ask AI
☐ 29ms on 15:57:47, 08/14
☐ 29ms on 15:57:47, 08/14
☐ 3
☐ 11
☐ 13
☐ 17
☐ 19
```

Q8)

```
main.py > ...

1  a=int(input("enter the length of the side 1 of the triangle:"))
2  b=int(input("enter the length of the side 2 of the triangle:"))
3  c=int(input("enter the length of the side 3 of the triangle:"))
4  if a*a==b*b+c*c or b*b==a*a+c*c or c*c==a*a+b*b:
5  print("it is a right angled triangle")
6
7
```

```
enter the length of the side 1 of the triangle:6 enter the length of the side 2 of the triangle:8 enter the length of the side 3 of the triangle:10 it is a right angled triangle
```

# Q9)

```
1  a=int(input("enter the marks of test 1:"))
2  b=int(input("enter the marks of test 2:"))
3  c=int(input("enter the marks of test 3:"))
4  if a<b and a<c:
5  print("Average of best two test marks out of three test's marks is:",
        (b+c)/2)
6  elif b<a and b<c:
7  print("Average of best two test marks out of three test's marks is:",
        (a+c)/2)
8  else:
9  print("Average of best two test marks out of three test's marks is:",
        (a+b)/2)
10</pre>
```

```
enter the marks of test 1:34
enter the marks of test 2:25
enter the marks of test 3:12
Average of best two test marks out of three test's ma
rks is: 29.5
```

Q10)

```
main.py > ...

    Form

2 number = int(input("Enter a number: "))
3 num_str = str(number)
4 if num_str == num_str[::-1]:
        print(f"{number} is a palindrome.")
        print(f"{number} is not a palindrome.")
8 digit_count = {}
9 for digit in num_str:
        if digit in digit_count:
            digit_count[digit] += 1
        else:
            digit_count[digit] = 1
14
    print("Digit occurrences:")
    for digit, count in digit_count.items():
        print(f"{digit}: {count}")
```

```
Enter a number: 1234321
1234321 is a palindrome.
Digit occurrences:
1: 2
2: 2
3: 2
4: 1
                          ☐ Ask AI 2s on 16:49:51, 08/14 ✓
✓ Run
Enter a number: 12345
12345 is not a palindrome.
Digit occurrences:
1: 1
2: 1
3: 1
4: 1
5: 1
```

## Q11)

# Code:

```
sentence = input("Enter a sentence: ")
word count = 0
digit_count = 0
uppercase_count = 0
lowercase_count = 0
words = sentence.split()
word_count = len(words)
for char in sentence:
    if char.isdigit():
        digit_count += 1
    elif char.isupper():
        uppercase count += 1
    elif char.islower():
        lowercase count += 1
print(f"Number of words: {word_count}")
print(f"Number of digits: {digit_count}")
print(f"Number of uppercase letters: {uppercase_count}")
print(f"Number of lowercase letters: {lowercase_count}")
```

## **Output:**

```
Enter a sentence: The man is in his 2nd house
Number of words: 7
Number of digits: 1
Number of uppercase letters: 1
Number of lowercase letters: 19
```