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## Q1

```
with open("demo.txt","r",encoding="utf-8") as f:
```

```
    list1=f.readlines()
```

```
    a=list(i.strip() for i in list1)
```

```
    print(a)
```

```
"C:/Users/niraj/Downloads/Study/CDA
```

```
['hello', 'hie', 'namaste']
```

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## Q2

```
a=int(input("Enter the number:"))
```

```
try:
```

```
    x=10/a
```

```
    print(x)
```

```
except ZeroDivisionError as e:
```

```
    print(e)
```

```
except Exception as e:
```

```
    print(e)
```

```
Enter the number:0
```

```
division by zero
```

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## Q3

```
list1=['100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', '500']
```

```
c=""
```

```
d=0
```

```
for i in list1:
```

```
if i.isalpha():
    c=c+i+"#"
elif i.isdigit():
    d=d+int(i)
print(c,"\\n",d)
```

```
"C:/Users/niraj/Downloads/Stu
welcome#hi#bye#welldone#
1100
```

.....

## Q4

```
data = {"x": 5, "y": 15, "z": 25,"p":12}
sorted_dict = dict(sorted(data.items(), key= lambda item:item[1]))
values = list(sorted_dict.values())
n = len(values)

print("Sorted Dictionary:", sorted_dict)

if n == 1:
    result = values[0] * 2

elif n % 2 == 0:
    mid1 = values[n // 2 - 1]
    mid2 = values[n // 2]
    result = mid1 + mid2

else:
    mid = values[n // 2]
    result = mid * 2

print("Sum =", result)
```

```
Sorted Dictionary: {'x': 5, 'p': 12, 'y': 15, 'z': 25}
Sum = 27
```

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