Q1.

```python
year=int(input("Enter year: "))

if year%4==0 and (year%400==0 or year%100!=0):
    print("{} is a leap year.".format(year))
else:
    print("{} is NOT a leap year.".format(year))
```

Q2.

```python
string =input("Enter a word: ")

vowel_count=sum(1 for char in string if char.lower() in "aeiou")

print("{} vowels prsesnt".format(vowel_count))
```

Q3.

```python
list=[]
for i in range(6):
    name=input("Enter name {}: ".format(i+1))
    list.append(name)
for name in list:
    if(name[0].lower()=='a'):
        print(name,end="\n")
```

Q4.

```python
integers_string=input("Enter 10 numbers: ")

list=list(map(int,integers_string.split()))

for i in list:
    if i==0:
```

```python
        print("Invalid number",end="\n")

    elif i%2==0:
        print(i**2,end="\n")
    else:
        print(i**3,end="\n")
```

Q5.
```python
def rose_cost(rose_count):
    return rose_count*10


def delivery_cost(dist):
    if dist<=5:
        return 25
    elif dist>5 and dist<=10:
        return 50
    elif dist>10:
        return 75


def main():
    rose_count = int(input("Enter the number of roses: "))
    dist = int(input("Enter the distance to deliver in km: "))


    print("Total cost: {}".format(rose_cost(rose_count)+delivery_cost(dist)))



main()
```