```python
import random

random_numbers= []
for i in range(10):
    random_numbers.append(random.randint(1,100))

odd_numbers= []
even_numbers= []

for i in random_numbers:
    if i%2 == 0:
        even_numbers.append(i)
    else:
        odd_numbers.append(i)

print("original numbers are: ",random_numbers)
print("Even numbers are: ", even_numbers)
print("Odd numbers are: ", odd_numbers)
```

```
original numbers are:  [100, 53, 3, 73, 72, 27, 39, 44, 61, 21]
Even numbers are:  [100, 72, 44]
Odd numbers are:  [53, 3, 73, 27, 39, 61, 21]
```