Assignment 2

1.

```
def num_check (num,range):

        for i in range(range):

                if i==num:

                        return True

                else

                        pass

num = int(input('enter a number to be checked in range:'))

range= int(input('enter a range value:'))

result = num_check(num,range)

if (result == True):

        print('num falls in range')

else

        print('num do not fall in range')
```

2.

```
card_count = int(input('enter no.of cards u have:'))

new_count = card_count//2

print('reduced new card count according to the rule is:',new_count)
```

3.

```
from random import randint

range1 = int(input('enter a positive number'))

range2 = range1+11

r = randint(range1,range2)

print('A'*r)
```

4.

```
start_hr = int(input('enter start_hr:'))

end_hr = int(input('enter end_hr:'))

if end_hr > start_hr:

        total_time_used= end_hr – start_hr

        total_bill = total_time_use * 5.50

else

        total_time_used = (24 – start_hr) + end_hr

        total_bill = total_time_use * 5.50

print('total bill to be paid:',total_bill)
```

5.

```
from random import randint

count = 0

for i in range(10000):

        dice1_value = randint(1,7)

        dice2_value = randint(1,7)

        if dice1_value == dice2_value:

                count+=1

percentage = count/100

print('percentage of rolls that are doubles is:',percentage)
```