

Assignment2 - solution for problem 1:

```
input_number=int(input())
input_range=range(int(input()))
if input_number in input_range:
    print("number is in with in range")
else:
    print("number is not within range")
```

Assignment2 - solution for problem 2:

```
enter_no_of_cards_in_hand=int(input())
no_of_cards_to_be=enter_no_of_cards_in_hand//2
print(no_of_cards_to_be)
```

Assignment2 - solution for problem 3:

```
import random
input_number=int(input())
random_number=random.randint(input_number,input_number+10)
print("A"*random_number)
```

Assignment2 - solution for problem 4:

```
starting_hour=int(input())
ending_hour=int(input())
charge_per_hour=5.50
if starting_hour<ending_hour:
    bill=(ending_hour-starting_hour)*charge_per_hour
else:
    bill=((24-starting_hour)+ending_hour)*charge_per_hour
print(bill)
```

Assignment2 - solution for problem 5:

```
import random
count_double_dice=0

for i in range(10000):
    a=random.randint(1,6)
    b=random.randint(1,6)
    if a==b:
        count_double_dice+=1
print(count_double_dice/10000)
```