Assignment2

Assignment 2.1

In [ ]:
```
def test_range(n):
    if n in range(1,501):
        print( " %s is in the range" %str(n))
    else :
        print("The number is outside the given range.")

var=int(input("Enter a number to check which falls in the range"))
test_range(var)
```

Assignment 2.2

In [58]:
```
cards_in_hand=int(input("Enter how many cards do you have in hand currently"))
if cards_in_hand ==0:
    print ("you have nothing left to lose!!")
else:
    print("you will left with %s " %str(int(cards_in_hand/2)))
```

```
Enter how many cards do you have in hand currently21
you will left with 10
```

Assignment 2.3

In [94]:
```
import random
var=int(input("Enter a number to positive number: "))

loop_var = random.choice(range(var,var+12))
print ("Lette A will be printed ", loop_var)
while loop_var > 0:
    print ("A",end=' ')
    loop_var -=1
```

```
Enter a number to positive number: 12
Lette A will be printed  13
A A A A A A A A A A A A A
```

Assignment 2.4

In [110…
```
start_time=int(input("Enter starting time in 24H format: "))
end_time=int(input("Enter end time in 24H format: "))
if (start_time >24  or end_time > 24):
    print("Enter proper time as entered time is more than 24, are you from Planet Merc

if (start_time > end_time) and (start_time-end_time < 23):
    bill_amount = 5.5*(24-start_time+end_time)
    utilized_time =24-start_time+end_time
    print ("time utilized is", utilized_time, "& Billing amount is $%s" %str(bill_amou
```

```
Enter starting time in 24H format: 23
Enter end time in 24H format: 5
time utilized is 6 & Billing amount is $33.0
```

Assignment 2.5

In [135…

```
import random

sample_space=int(input("Enter how many times the dices has  rollup: "))
bkp=sample_space

doubles =0
while sample_space > 0:
    dice1 = random.choice(range(1,7))
    dice2 = random.choice(range(1,7))
    print([dice1,dice2],end=' ')
    if dice1==dice2:
        doubles+=1
    sample_space-=1


print("\nDoubles happend in", doubles)
print ("percentage of double for  %s Sample space is" %str(int(bkp)), (doubles/bkp*100
```

```
Enter how many times the dices has  rollup: 20
[5, 5] [3, 5] [4, 6] [3, 5] [2, 3] [2, 4] [3, 6] [5, 5] [1, 2] [6, 5] [5, 2] [2, 5]
[2, 6] [3, 2] [3, 5] [5, 6] [2, 4] [1, 2] [2, 6] [5, 6]
Doubles happend in 2
percentage of double for  20 Sample space is 10.0 %
```

In [128…

```
print(3/9*100)
```

```
33.33333333333333
```