Løsningsforslag

Oppgave 1 (30%)

Oppgavenr	*A*	*B*	*C*	*D*
1.1				
1.2				
1.3				
1.4				
1.5				
1.6				
1.7				
1.8				
1.9				
1.10				
1.11				
1.12				
1.13				
1.14				
1.15				
1.16				
1.17				
1.18				
1.19				
1.20				

Oppgave 2 (10%)

Oppgave 2a (5%)

```
def yatzy(t1, t2, t3, t4, t5):
    liste = [t1,t2,t3,t4,t5]
    liste.sort()
    if (max(liste)>6):
        liste = "Ikke bruk input stoerre enn 6!"
    elif (min(liste)<1):
        liste = "Ikke bruk input mindre enn 1!"
    return  liste
```

Oppgave 2b (5%)

```
def maxi_yatzy(liste):
    flestverdi = 0
    maxantall = 0

    for i in range(1,7):
        antall = 0
        for item in liste:
            if (item==i):
                antall = antall + 1
        if (antall >= maxantall):
            flestverdi = i
            maxantall = antall
    melding = "Du kastet "+str(len(liste))+" terninger og fikk flest "
    melding = melding + str(flestverdi)+" ("+str(maxantall)+" like)."
    return melding
```

Oppgave 3 (10%)

Oppgave 3a (5%)

```
>>> secret([1,4,8,2,5,8,10,1])
[10, 8, 8, 5, 4, 2, 1, 1]
```

Oppgave 3b (5%)

```
>>> secret2(12345678)
8
```

Oppgave 4 (50%)

Oppgave 4a (5%)

```
def enterWords():
    wordList=[]
    result = "something" # To avoid the while-loop to be true first time
    while (result !=""):
        result = input("Enter word [Press Enter to quit]: ")
        if (result != ""):
            wordList.append(result)
    return wordList
```

Oppgave 4b (10%)

```
def noVowels(inList):
    vowels=["a","e","i","o","u","y"]
    outList = []
    for word in inList:
        newWord = ""
        for letter in word:
            if (letter not in vowels):
                newWord = newWord + letter
        outList.append(newWord)
    return outList
```

Oppgave 4c (10%)

```
import random

def randomSequence(listOne,listTwo):
    newlistOne = []
    newlistTwo = []
    while(len(listOne)):
        number = random.randint(0,len(listOne)-1)
        newlistOne.append(listOne[number])
        newlistTwo.append(listTwo[number])
        del listOne[number]
        del listTwo[number]
    return [newlistOne,newlistTwo]
```

Oppgave 4d (5%)

```
def printNewlines(number):
    for i in range(1,number):
        print()
```

Oppgave 4e (10%)

```
def playGame(answers, puzzles):
    points = 0
    for i in range(0,len(answers)):
        print("Puzzle word:",puzzles[i])
        answer = input("Guess word? ")
        if (answer == answers[i]):
            print("You answered correctly!")
            points = points + 1
        else:
            print("You answered incorrectly! The answer should be",answers[i])
    return points
```

Oppgave 4f (10%)

```
# Print information to the screen
print("The NoVowels Game")
print("==================================")
print("Player 2: Look away from the screen")
print("Player 1: Write in a list of English words in lower-case.")

# Get a list of words entered by Player 1
wordList = enterWords()

# Create a new list without vowels
noVowelsList = noVowels(wordList)

# Randomize the sequence of words for both lists
[answers,quizzes] = randomSequence(wordList,noVowelsList)

# Print 50 newlines
printNewlines(50)

# Play the game
print("Player 2: Guess words that lack all vowels:")
points = playGame(answers,quizzes)
print("You've got",points,"of",len(answers),"points")
```