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Assignment # 1

Programming fundamentals.

Engr. Malaqas.

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Question # 1

Answer:-

```
Import random
Words = ['Asad', 'Tahir', 'Qaiser']
Word = random.choice(words)
Print("Guess the characters")
  guesses =
   turns=5
  While turns>0:
   failed =0
  for char in word:
    if char in guesses:
   print(char)
  else:
      print("_")
      failed+=1
  if failed==0:
   print("You Win")
   print("The word is:", Word)
    break
  guess = input("guess a character:")
   guesses+=guess
   if guess not in word:
```


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```
turn - = 1
Print("Wrong")
Print("You have", +turns, 'more guesses')
if turns == 0:
  print("You loose")
```

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Question #2.

Answer:-

```
import random
import string

def
randomstring with Digits And Symbols (stringLength = 15):

Password_characters = string.ascii_letter + string.digitst + string.Punctution

return
''.join(random.choice(password_characters) for i in range(stringlength))

print("Generating Random string Password with letters digits and special characters")

Print("First Random Password", randomstringwith digitsAndSymbols())

Print("Second Random Password", randomstring withdigits AndSymbols(10))

Print("Third Random Password", randomstring withDigitsAndSymbols(10))
```

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Question # 3.

Answer:-

```
a = AES.new("1234567890123456")

m = 'aaaabbbbccccdddd'

encrypted = a.encrypt(m)
print(encrypted)

encoded = encrypted.encode('hex')
decoded = encoded.decode('hex')
encrypted == decoded
print (encrypted)
```

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