Ques) SHA-1 is a popular heuristic hash function that is currently in trend. In this experiment, we shall familiarize ourselves with SHA-1 as well as look at one important application of hashing, namely, the HMAC algorithm which is currently used in the Internet to achieve data integrity.

Code:

```
#Using hashlib and hmac modules
import hashlib
import hmac
def make_digest(message, key):
# converting into bytes
    key = bytes(key, 'UTF-8')
    message = bytes(message, 'UTF-8')
# creating signature from the digest using sha1
    digester = hmac.new(key, message, hashlib.sha1)
    signature1 = digester.hexdigest()
    print("Hexdigest: ",signature1)
    # other functions to display details
    print ("Digest size is(in bytes): " + str(digester.digest_size))
    print ("Block size is(in bytes): " + str(digester.block_size))
    print ("Canonical name(encryption Algorithm used): " + digester.name)
# main function
message=input("Enter the message(used in SHA1): ")
key=input("Enter the key(used in MAC): ")
make_digest(message,key)
```

Output: