Conditions for a valid password are:

1. Should have at least one number.
2. Should have at least one uppercase and one lowercase character.
3. Should have at least one special symbol.
4. Should be between 6 to 20 characters long.

```
#1: Without using Regex
def password_check(passwd):

  SpecialSym =['$', '@', '#', '%']
  val = True

  if len(passwd) < 6:
    print('length should be at least 6')
    val = False

  if len(passwd) > 20:
    print('length should be not be greater than 8')
    val = False

  if not any(char.isdigit() for char in passwd):
    print('Password should have at least one numeral')
    val = False

  if not any(char.isupper() for char in passwd):
    print('Password should have at least one uppercase letter')
    val = False

  if not any(char.islower() for char in passwd):
    print('Password should have at least one lowercase letter')
    val = False

  if not any(char in SpecialSym for char in passwd):
    print('Password should have at least one of the symbols $@#')
    val = False
  if val:
    return val

# Main method
def main():
  passwd = 'Ar2aia@DSSGDSGDSGDGSDHFFJDJEUFJGHKDYIFGKHFGG'

  if (password_check(passwd)):
    print("Password is valid")
  else:
    print("Invalid Password !!")

# Driver Code
if __name__ == '__main__':
  main()
```

```
length should be not be greater than 8
Invalid Password !!
```

```
#2: Using regex
# importing re library
import re

def main():
    passwd = 'Arun@123'
    reg = "^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%*#?&])[A-Za-z\d@$!#%*?&]{6,20}$"

    # compiling regex
    pat = re.compile(reg)

    # searching regex
    mat = re.search(pat, passwd)

    # validating conditions
    if mat:
        print("Password is valid.")
    else:
        print("Password invalid !!")

# Driver Code
if __name__ == '__main__':
    main()
```

```
 Password is valid.
```