

PYTHON ASSIGNMENT - 5

Question 1 –

```
# Write a program to prompt user to enter userid and password. If Id and password is incorrect give him chance to r

userid = input("Please Enter the Userid : ")
password = input("Please Enter the Password : ")

for i in range(1,4):
    if(userid == "Prathmesh" and password == "Prathmesh#98"):
        print("Login Successful")
        break
    else:
        print("Invalid Credentials")
        userid = input("Please Enter the Userid : ")
        password = input("Please Enter the Password : ")
```

Question 2 –

```
# Enter number of students from user. For those many students accept marks of 5 subject marks from user and calcula

students = int(input("Please Enter the number of students : "))
Average_percentage = 0

for i in range(1,students+1):
    sub1 = int(input("Please Enter the marks of subject 1 : "))
    sub2 = int(input("Please Enter the marks of subject 2 : "))
    sub3 = int(input("Please Enter the marks of subject 3 : "))
    sub4 = int(input("Please Enter the marks of subject 4 : "))
    sub5 = int(input("Please Enter the marks of subject 5 : "))
    total = sub1 + sub2 + sub3 + sub4 + sub5
    percentage = total/5
    Average_percentage = Average_percentage + percentage
    print("Percentage of student" + i + "is" + percentage)
    (variable) students: int

print("Average Percentage of students is",Average_percentage/students)
```

Question 3 –

```
#Accept no. of passengers from user and per ticket cost. Then accept age

Passengers=int(input("Please Enter the number of Passengers : "))
ticket_price = float(input("Enter the ticket price : "))

total_amount = 0

for i in range(1 , Passengers+1):
    age = int(input("Please Enter the Age : "))
    if age <= 12:
        total_amount += ticket_price * 0.70
    elif age >= 59:
        total_amount += ticket_price * 0.50
    else:
        total_amount += ticket_price

print("The Total Price is of the Ticket is  ",total_amount)
```

Question 4 –

```
#4 Write a program to check if given number is Armstrong number or not.

number1 = int(input("Please Enter the Number : "))

sum = 0

temp = number1

while(temp > 0):
    digit = temp % 10
    sum = sum + digit ** 3
    temp = temp // 10

if(number1 == sum):
    print(number1,"is an Armstrong number")
else:
    print(number1,"is not an Armstrong number")
```

Question 5 –

#5 Write a program to print prime numbers between 1 to 100.

```
for i in range(2,101):
    for j in range(2,i):
        if(i % j == 0):
            break
    else:
        print(i)
```

Question 6 –

Write a program to print first n prime numbers

```
n = int(input("Please Enter the Number : "))
```

```
for i in range(2,n+1):
    for j in range(2,i):
        if(i % j == 0):
            break
    else:
        print(i)
```

Question 7 –

#Q7 Write a program to solve the following series : a. $1! + 2! + 3! + 4! + \dots n!$

```
n = int(input("Enter value of n:"))
sum = 0
```

```
for i in range(1,n+1):
    fact = 1
    for j in range(1,i+1):
        fact = fact * j
    sum += fact
print("Answer of your series is",sum)
```