Name:

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roll

Program

MSC(DS) Part-1

1. Add the two strings (use + operator)

```
string1 = "Python"
string2 = "Assignment"
string1+string2
```

```
'PythonAssignment'
```

2. Combine two stirng with space?(use + operator)

```
string1 + " " + string2
```

```
'Python Assignment'
```

3. Assign same values for multiple variables?

```
height1 = height2 = height3 = 1.79
height1
height2
height3
```

```
1.79
```

4. Input The height and weight of a person and calculate BMI of a person? (weight/height*height) in kg/meter sq

```
height = float(input("Enter Height(meters):"))
weight = float(input("Enter weight(kgs):"))
bmi = weight/(height)**2
str(bmi) + " kg/meter sq"
```

```
Enter Height(meters): 1.8
Enter weight(kgs): 65
```

```
'20.061728395061728 kg/meter sq'
```

5.Calculate area of circle = pi * r square

```
radius = float(input("enter radius:"))
pi = 3.14
pi*radius**2
```

```
enter radius: 23
```

```
1661.0600000000002
```

IF Statement

1. x = 20 and y = 30. Write a code to find if x is less than y?

```
x = 20
y = 30
if x < y:
    print("x is less than y")
elif x==y:
    print("x and y are equal")
else:
    print("x is greater than y")
```

if-else Statement

1. Write a code to check if a student has passed a subject based on a string input (Yes, No)

```
passing_criteria = 40
marks_obtained = float(input("Enter marks:"))
if marks_obtained >= passing_criteria:
    print("Student Passed: Yes!")
else:
    print("Student Passed: No :( ")
```

2. Take the password as an input and check if it is equal to 'great'. Show a message accordingly. Write a code for this.

```
stored_pass = "great"
input_pass = input("Enter password:")
if input_password == stored_pass:
    print("Password match successful")
else:
    print("Passwords do not match")
```

Nested if Statement

1. Based on the users age, divide them in to three groups Group 1 : Age <18 , Minors who are not eligible to work Group 2 : 18<Age<60 , ELigible to work Group 3 : >60, Too old to work as per govt. regulations.

Write a pseudocode for the same

```
user_age =  int(input("Enter age:"))
if user_age < 18:
    print("Minors are not eligible for work")
elif user_age >= 18 and user_age <= 60:
```

```python
        print("Eligible to work")
else:
        print("You have surpassed the age limit to work as per the govt. regulations")
```